



OIL CONSERVATION DIVISION

REG. # 10866

SEP 14 1993 10 53

OXY USA INC.

Box 50250, Midland, TX 79710

September 14, 1993

State of New Mexico
Oil Conservation Division
P. O. Box 2088
Santa Fe, New Mexico 87504

10866

Attention: Mr. Bill Lemay, Director

Re: Application of OXY USA Inc. for Expansion of Authorization to Inject (C-108) for East Eumont Unit, Queen Formation, Eumont Yates Seven Rivers Queen Pool, Lea County, New Mexico

Dear Mr. Lemay:

Please find enclosed our C-108 application to expand our existing authority for our East Eumont Unit. Injection was originally authorized under Order No. R-2901, but we propose an additional injection well in the north area. OXY is also attempting to qualify this project for the Recovered Oil Tax Rate, so the enclosed C-108 covers all injection wells in the proposed project area. Publication of the legal notice has been requested and will be forwarded as soon as it is available. All parties listed on the attached service list have been sent a copy of this application on or before this date. Proof of such will also be sent as soon as possible. If you have any questions relating to this application please call me at 915/685-5913 or Scott Gengler at 915/685-5825. Thank you for considering our application.

Sincerely,

Richard E. Foppiano
Regulatory Affairs Advisor
Western Region - Midland

REF/ref

XC: NMOCD, Santa Fe (orig + 2 copies) ←
NMOCD, Hobbs
Tom Kellahin
All parties on Service List, by certified mail

SERVICE LIST

Government Agencies

Bureau of Land Management
attn: Vince Baldarez
P. O. Box 1157
Hobbs, N.M., 88240

State of New Mexico Land Office
3830 N. Grimes, Ste. C
Hobbs, N.M., 88240

Offset Operators

A & A Oilfield Service
P. O. Box 5028
Hobbs, N.M., 88241

Chevron USA Inc.
P. O. Box 1150
Midland, TX. 79702

Lanexco
P. O. Box 2730
Midland, Tx., 79702

Ralph E. Erwin
P. O. Box 755
Hobbs, N.M., 88241

Surface Owners

Mrs. Bruce A. Carlin
P. O. Box 61
Hobbs, N.M., 88241

E. W. Cox
9201 W. Carlsbad Hwy.
Hobbs, N.M., 88240

James Foley
(Robert H. Huston, Jr. estate)
513 Chaparral
Belen, N.M., 87002

Muriel Terry McNeil, Trustee
P. O. Box 686
Hobbs, N.M., 88240

Case 10866

APPLICATION FOR AUTHORIZATION TO INJECT

I. Purpose: Secondary Recovery Pressure Maintenance Disposal Storage
Application qualifies for administrative approval? yes no

II. Operator: OXY USA Inc.

Address: P. O. Box 50250, Midland, TX 79710

Contact party: Scott E. Gengler Phone: (915) 635-5325

III. Well data: Complete the data required on the reverse side of this form for each well proposed for injection. Additional sheets may be attached if necessary.

IV. Is this an expansion of an existing project? yes no R-2901
If yes, give the Division order number authorizing the project 5-5569

V. Attach a map that identifies all wells and leases within two miles of any proposed injection well with a one-half mile radius circle drawn around each proposed injection well. This circle identifies the well's area of review.

* VI. Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail.

VII. Attach data on the proposed operation, including:

1. Proposed average and maximum daily rate and volume of fluids to be injected;
2. Whether the system is open or closed;
3. Proposed average and maximum injection pressure;
4. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and
5. If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).

*VIII. Attach appropriate geological data on the injection zone including appropriate lithologic detail, geological name, thickness, and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed injection zone as well as any such source known to be immediately underlying the injection interval.

IX. Describe the proposed stimulation program, if any.

* X. Attach appropriate logging and test data on the well. (If well logs have been filed with the Division they need not be resubmitted.)

* XI. Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.

XII. Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground source of drinking water.

XIII. Applicants must complete the "Proof of Notice" section on the reverse side of this form.

XIV. Certification

I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.

Name: Scott E. Gengler Title Engineering Advisor

Signature:  Date: July 20, 1993

* If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be duplicated and resubmitted. Please show the date and circumstance of the earlier submittal. I-5569, original application

III. WELL DATA

A. The following well data must be submitted for each injection well covered by this application. The data must be both in tabular and schematic form and shall include:

- (1) Lease name; Well No.; location by Section, Township, and Range; and footage location within the section.
- (2) Each casing string used with its size, setting depth, sacks of cement used, hole size, top of cement, and how such top was determined.
- (3) A description of the tubing to be used including its size, lining material, and setting depth.
- (4) The name, model, and setting depth of the packer used or a description of any other seal system or assembly used.

Division District offices have supplies of Well Data Sheets which may be used or which may be used as models for this purpose. Applicants for several identical wells may submit a "typical data sheet" rather than submitting the data for each well.

B. The following must be submitted for each injection well covered by this application. All items must be addressed for the initial well. Responses for additional wells need be shown only when different. Information shown on schematics need not be repeated.

- (1) The name of the injection formation and, if applicable, the field or pool name.
- (2) The injection interval and whether it is perforated or open-hole.
- (3) State if the well was drilled for injection or, if not, the original purpose of the well.
- (4) Give the depths of any other perforated intervals and detail on the sacks of cement or bridge plugs used to seal off such perforations.
- (5) Give the depth to and name of the next higher and next lower oil or gas zone in the area of the well, if any.

XIV. PROOF OF NOTICE

All applicants must furnish proof that a copy of the application has been furnished, by certified or registered mail, to the owner of the surface of the land on which the well is to be located and to each leasehold operator within one-half mile of the well location.

Where an application is subject to administrative approval, a proof of publication must be submitted. Such proof shall consist of a copy of the legal advertisement which was published in the county in which the well is located. The contents of such advertisement must include:

- (1) The name, address, phone number, and contact party for the applicant;
- (2) the intended purpose of the injection well; with the exact location of single wells or the section, township, and range location of multiple wells;
- (3) the formation name and depth with expected maximum injection rates and pressures; and
- (4) a notation that interested parties must file objections or requests for hearing with the Oil Conservation Division, P. O. Box 2088, Santa Fe, New Mexico 87501 within 15 days.

NO ACTION WILL BE TAKEN ON THE APPLICATION UNTIL PROPER PROOF OF NOTICE HAS BEEN SUBMITTED.

NOTICE: Surface owners or offset operators must file any objections or requests for hearing of administrative applications within 15 days from the date this application was mailed to them.

INJECTION WELL DATA SHEET

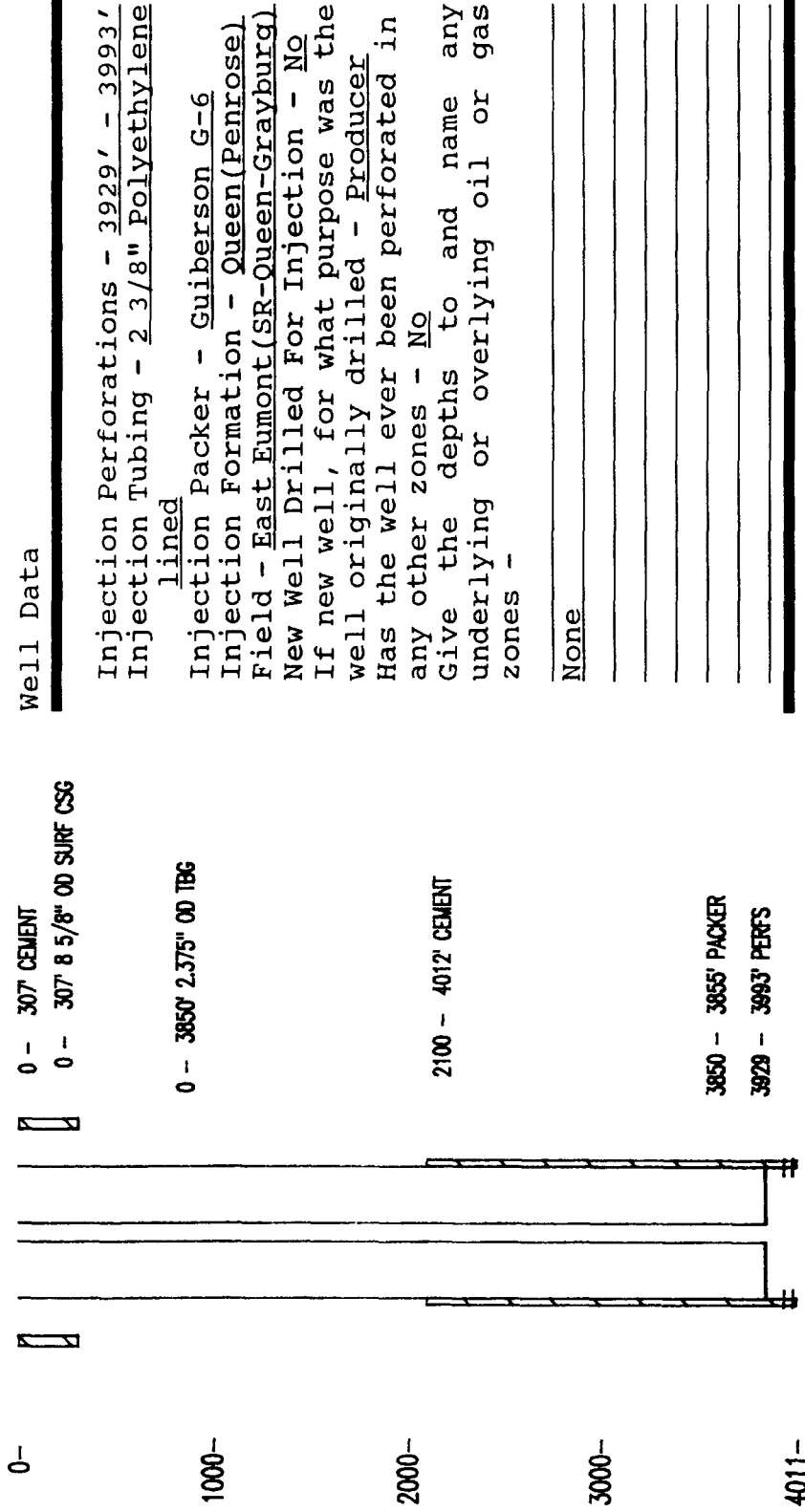
OXY USA Inc.

East Eumont Unit #2

2310' FNL, 1980' FEL, Sec. 33, T-18S, R-37E

Casing - Cement Data

Type	Size	Hole Size	Cement	TOC -	Determined By
Surface	8 5/8"	12 1/4"	165 sx	Surface -	calculated
Production	5 1/2"	7 7/8"	250 sx	2100' -	calculated



PBTD: 4008'
 TD: 4012'

INJECTION WELL DATA SHEET

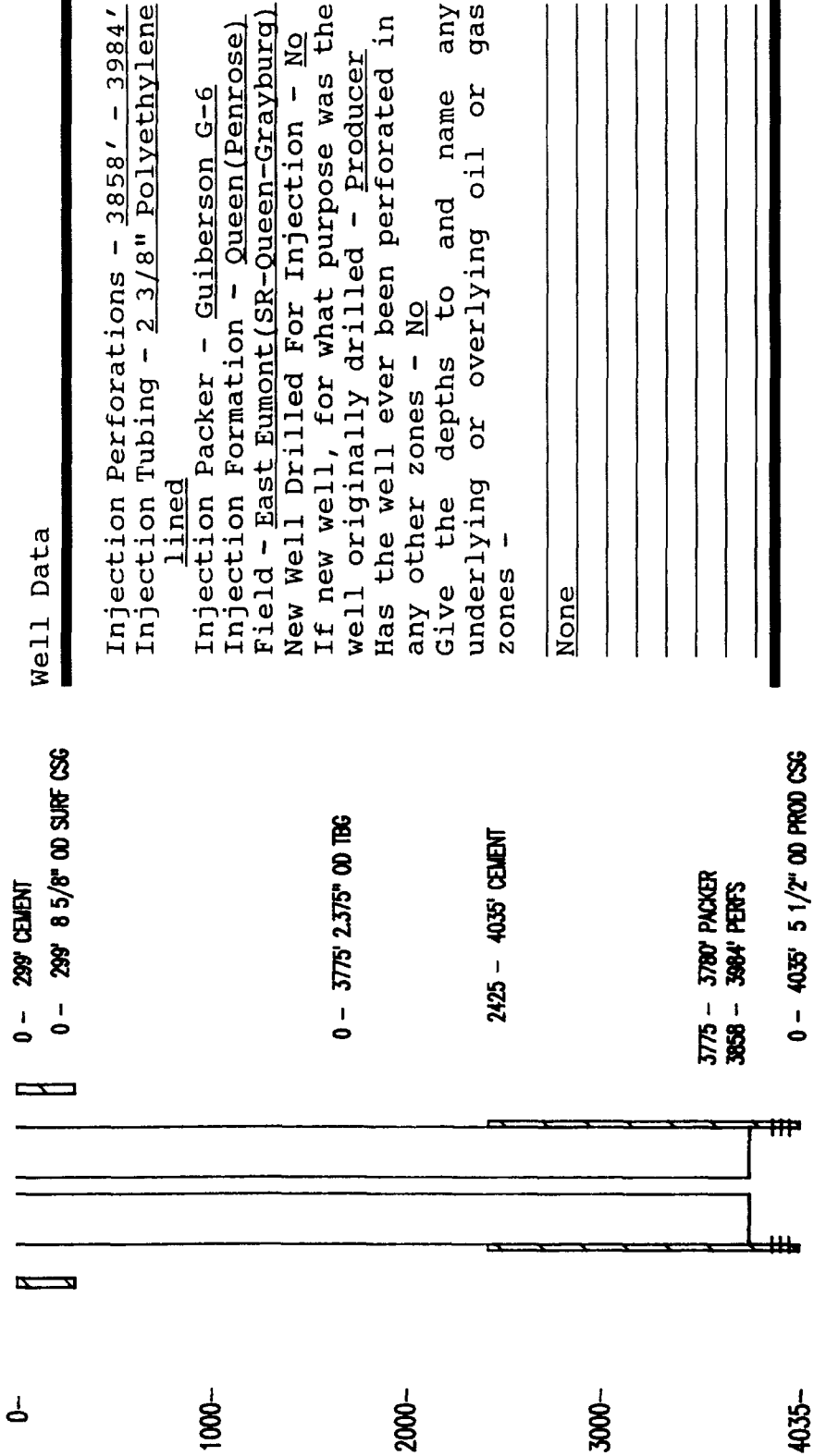
OXY USA Inc.

East Eumont Unit #4

1980' FSL, 1980 FWL, Sec. 33, T-18S, R-37E

Casing - Cement Data

Type	Size	Hole Size	Cement	TOC -	Determined By
Surface	8 5/8"	12 1/4"	225 sx	Surface -	circulated
Production	5 1/2"	7 7/8"	300 sx	2425' -	temp. survey



PBTD: 4014'
 TD: 4035'

INJECTION WELL DATA SHEET

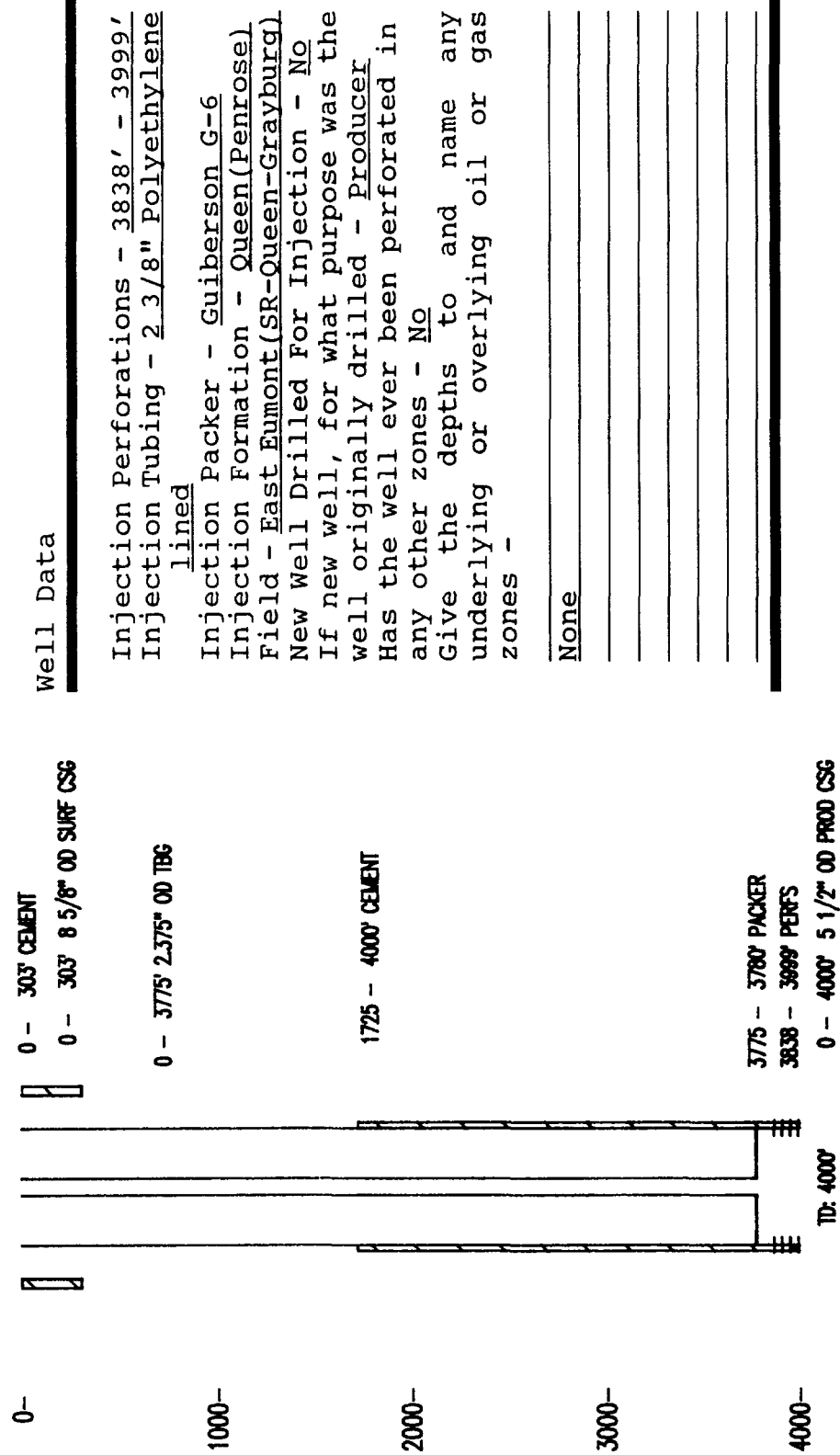
OXY USA Inc.

East Eumont Unit #6

1980' FSL, 660' FWL, Sec. 33, T-18S, R-37E

Casing - Cement Data

<u>Type</u>	<u>Size</u>	<u>Hole Size</u>	<u>Cement</u>	<u>TOC -</u>	<u>Determined By</u>
Surface	8 5/8"	12 1/4"	275 sx	Surface -	circulated
Production	5 1/2"	7 7/8"	1225 sx	1725' -	temp. survey



TD: 4000'

3775 - 3780' PACKER
 3838 - 3899' PERFS
 0 - 4000' 5 1/2" OD PROD CSG

INJECTION WELL DATA SHEET

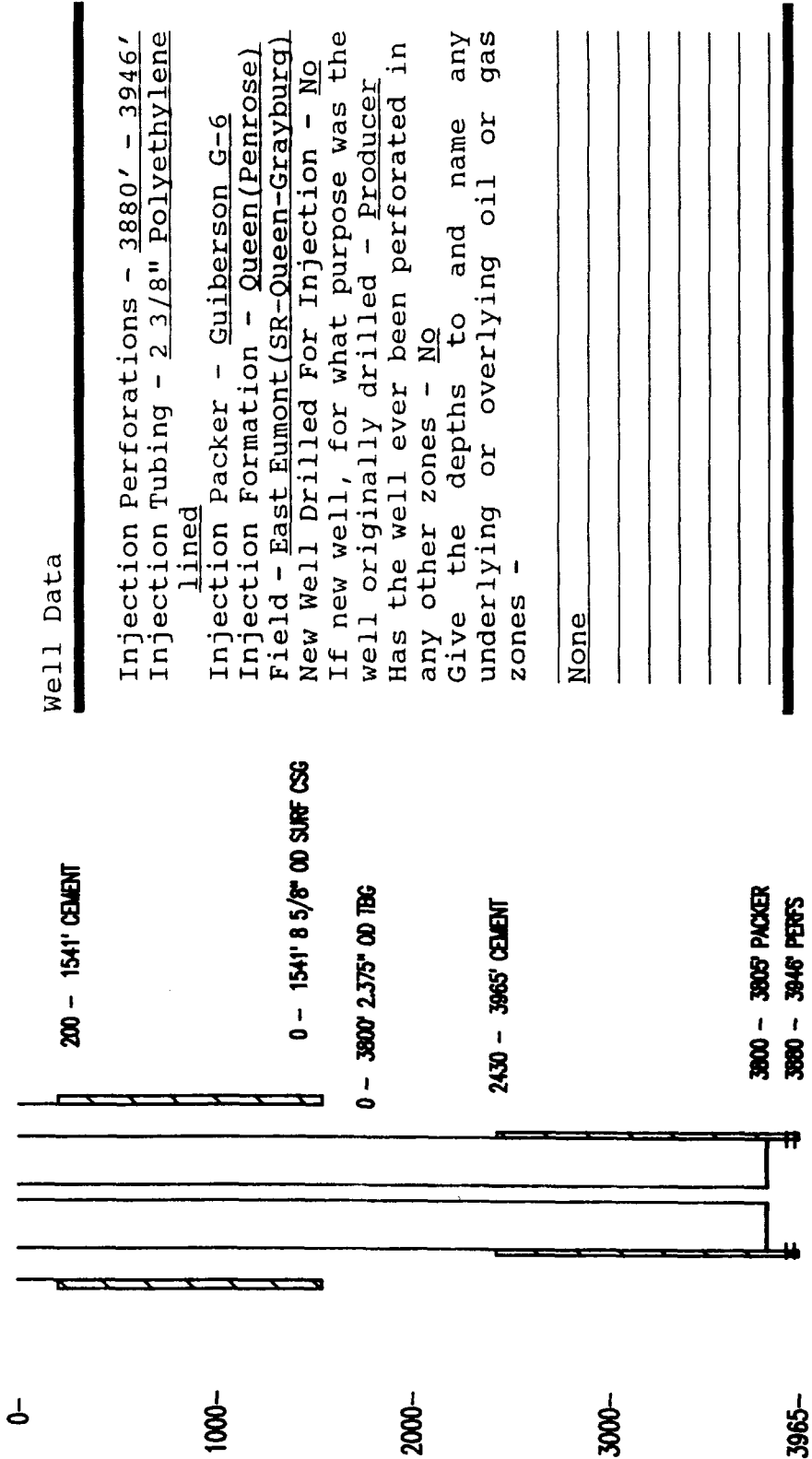
OXY USA Inc.

East Eumont Unit #7

880' FSL, 660' FWL, Sec. 33, T-18S, R-37E

Casing - Cement Data

Type	Size	Hole Size	Cement	TOC -	Determined By
Surface	8 5/8"	12 1/4"	800 sx	200' -	calculated
Production	5 1/2"	7 7/8"	400 sx	2430' -	calculated



Well Data

Injection Perforations - 3880' - 3946'
 Injection Tubing - 2 3/8" Polyethylene lined
 Injection Packer - Guiberson G-6
 Injection Formation - Queen(Penrose) Field - East Eumont(SR-Queen-Grayburg) New Well Drilled For Injection - No
 If new well, for what purpose was the well originally drilled - Producer
 Has the well ever been perforated in any other zones - No
 Give the depths to and name any underlying or overlying oil or gas zones -

- None
- _____
- _____
- _____
- _____
- _____
- _____
- _____

PBID: 3962
 TD: 3965

INJECTION WELL DATA SHEET

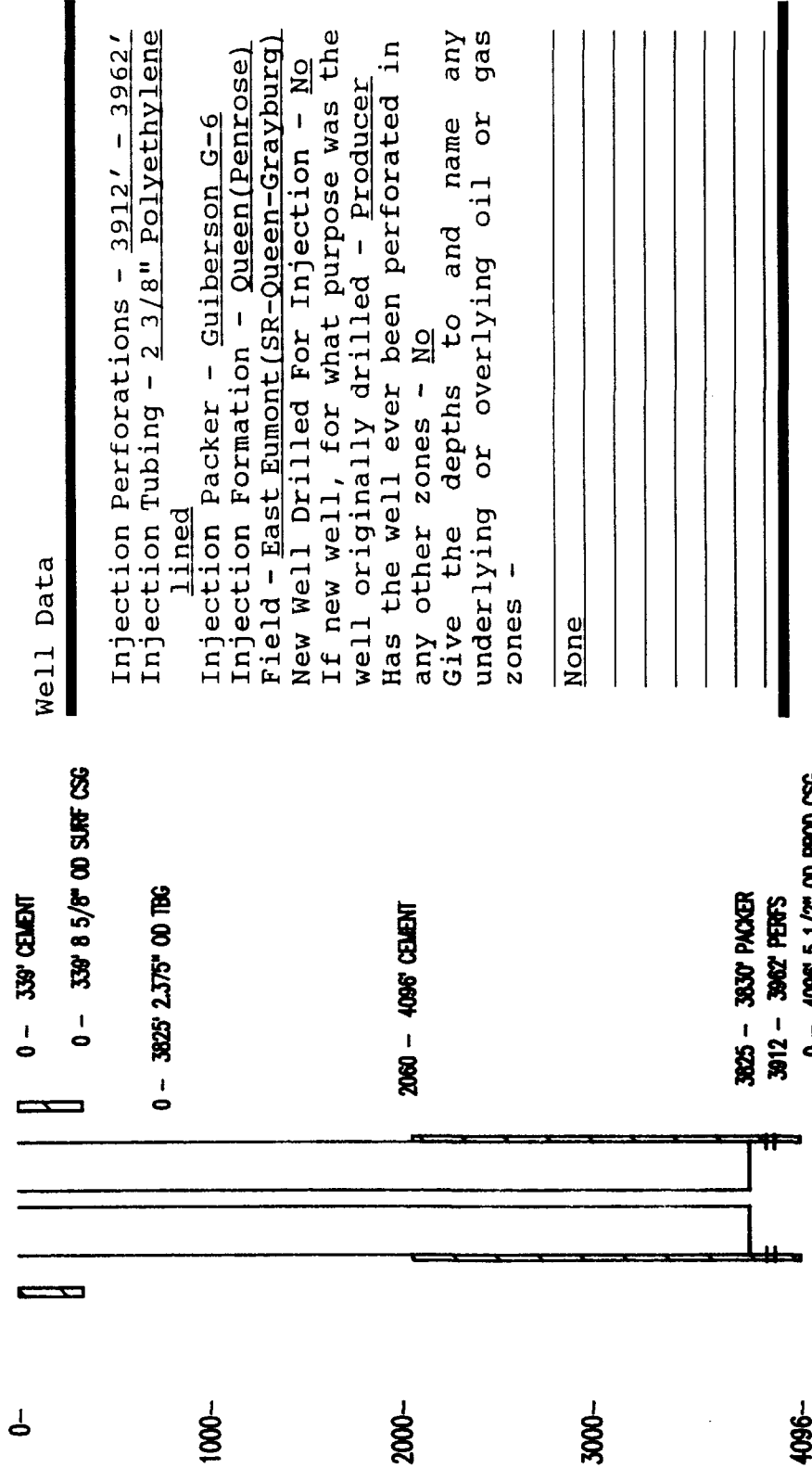
OXY USA Inc.

East Eumont Unit #9

660 FSL, 1650' FEL, Sec. 33, T-18S, R-37E

Casing - Cement Data

Type	Size	Hole Size	Cement	TOC -	Determined By
Surface	8 5/8"	11"	275 sx	Surface	- circulated
Production	5 1/2"	7 7/8"	500 sx	2060'	- temp. survey



Well Data

Injection Perforations - 3912' - 3962'
 Injection Tubing - 2 3/8" Polyethylene lined
 Injection Packer - Guiberson G-6
 Injection Formation - Queen(Penrose)
 Field - East Eumont(SR-Queen-Grayburg)
 New Well Drilled For Injection - No
 If new well, for what purpose was the well originally drilled - Producer
 Has the well ever been perforated in any other zones - No
 Give the depths to and name any underlying or overlying oil or gas zones -

- None
- _____
- _____
- _____
- _____
- _____
- _____

PRFD: 4070'
 TD: 4096'

INJECTION WELL DATA SHEET

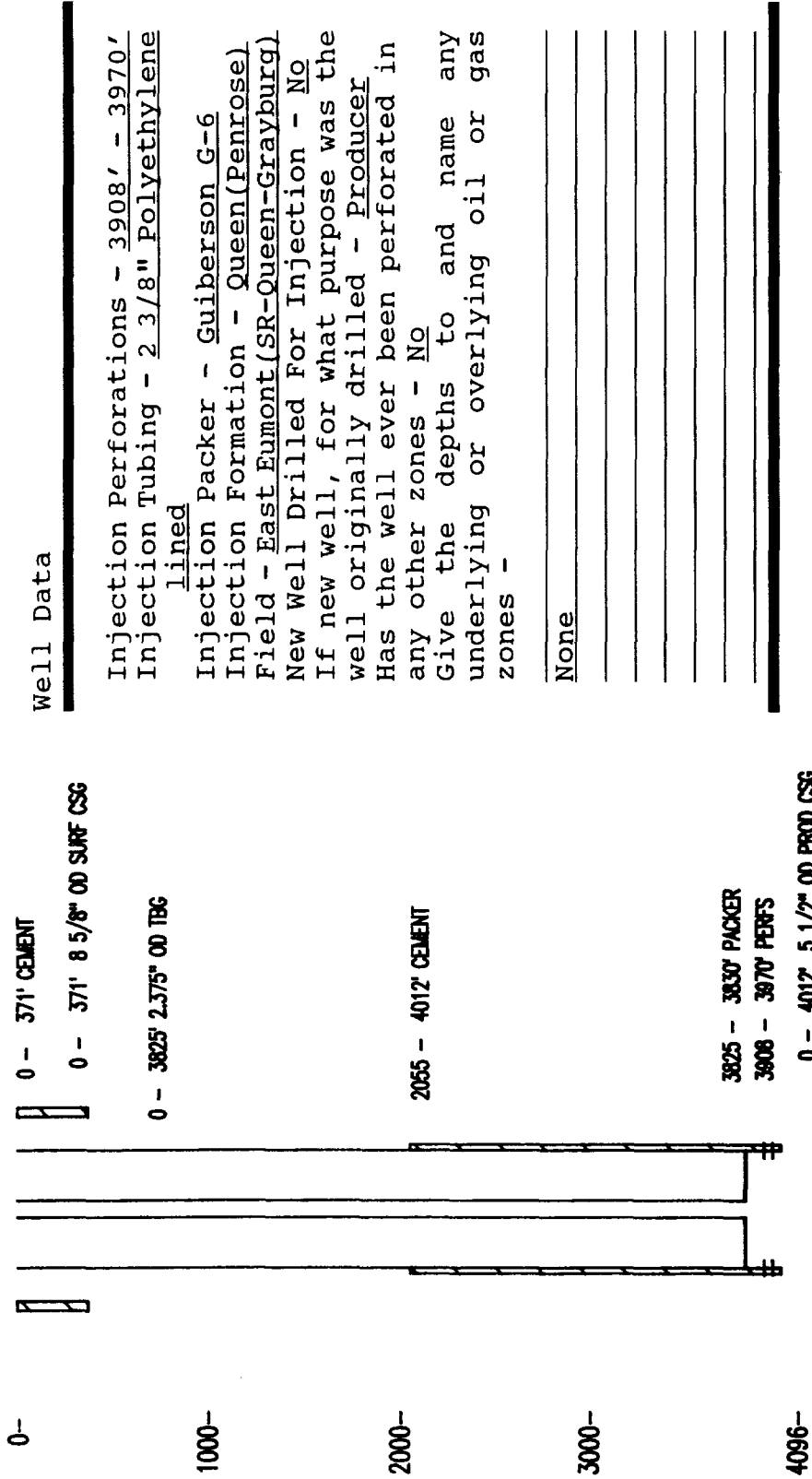
OXY USA Inc.

East Eumont Unit #11

660' FSL, 660' FWL, Sec. 34, T-16S, R-37E

Casing - Cement Data

Type	Size	Hole Size	Cement	TOC -	Determined By
Surface	8 5/8"	11"	300 sx	Surface -	circulated
Production	5 1/2"	7 3/4"	800 sx	2055' -	temp. svy.



Well Data

Injection Perforations - 3908' - 3970'
 Injection Tubing - 2 3/8" Polyethylene lined
 Injection Packer - Guiberson G-6
 Injection Formation - Queen(Penrose)
 Field - East Eumont(SR-Queen-Grayburg)
 New Well Drilled For Injection - No
 If new well, for what purpose was the well originally drilled - Producer
 Has the well ever been perforated in any other zones - No
 Give the depths to and name any underlying or overlying oil or gas zones -

None

3825 - 3830' PACKER
 3908 - 3970' PERFS

0 - 4012' 5 1/2" OD PROD CSG

PBTD: 4005'
 TD: 4015'

INJECTION WELL DATA SHEET

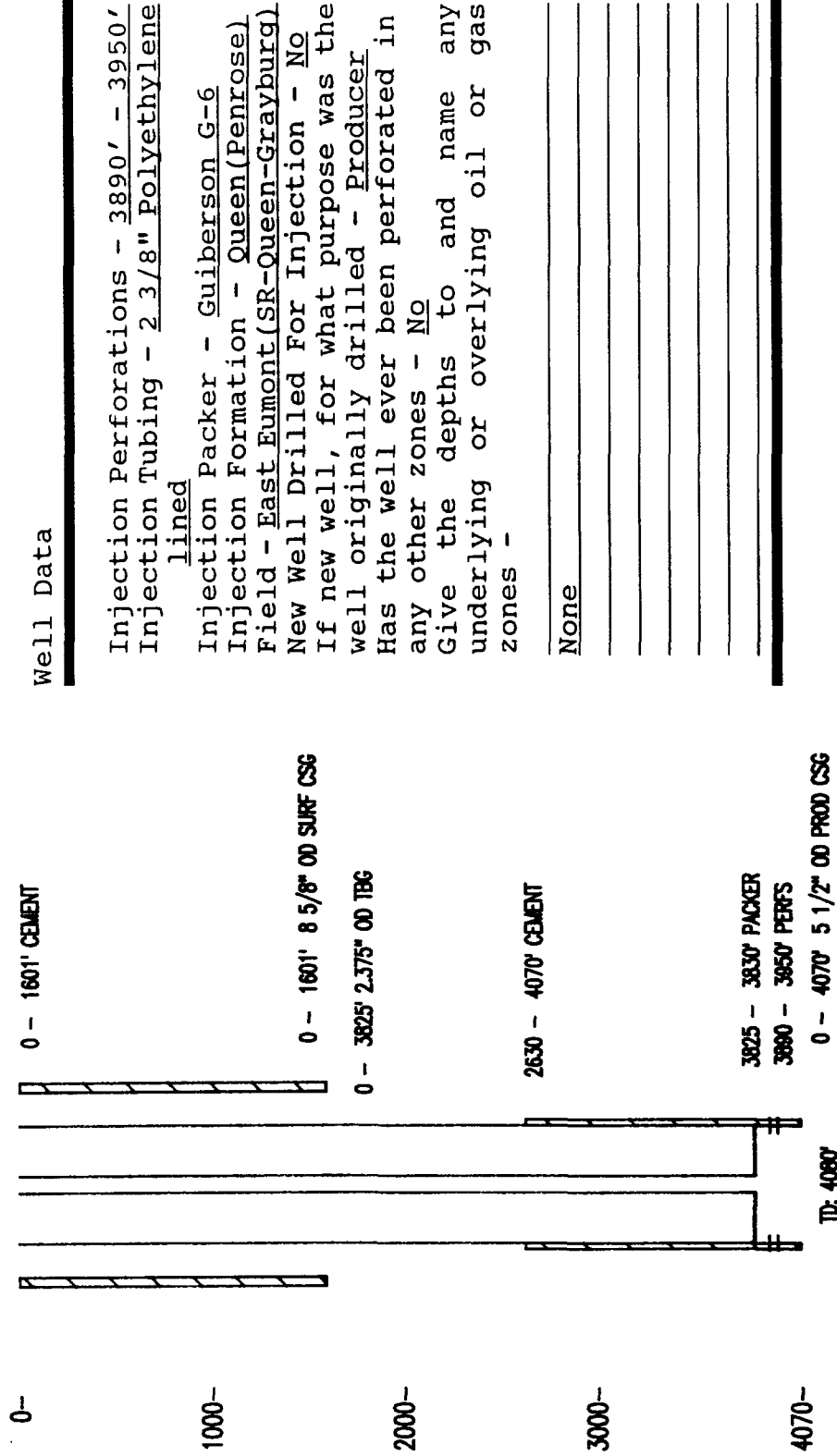
OXY USA Inc.

East Eumont Unit #12

273 FNL, 2400 FWL, Sec. 4, T-19S, R-37E

Casing - Cement Data

Type	Size	Hole Size	Cement	TOC -	Determined By
Surface	8 5/8"	11"	750 sx	Surface -	calculated
Production	5 1/2"	7 3/4"	550 sx	2630' -	calculated



ID: 40807

INJECTION WELL DATA SHEET

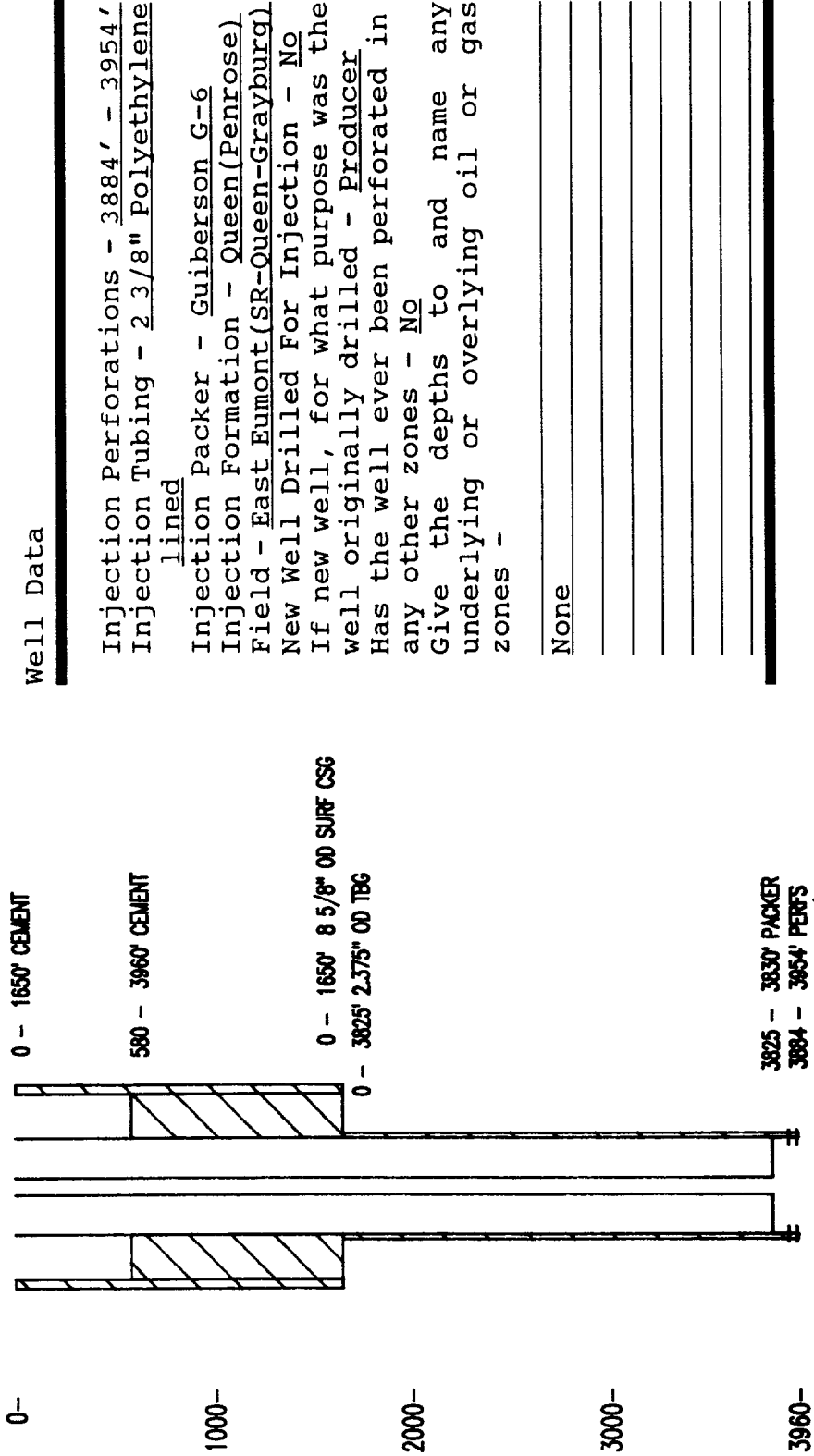
OXY USA Inc.

East Eumont Unit #14

660' FNL, 660' FEL, Sec. 4, T-19S, R-37E

Casing - Cement Data

Type	Size	Hole Size	Cement	TOC -	Determined By
Surface	8 5/8"	11"	900 sx	Surface	- calculated
Production	4 1/2"	6 3/4"	700 sx	580'	- calculated



3825 - 3830' PACKER
 3884 - 3854' PERFS
 0 - 3958' 4 1/2" OD PROD CSG

PBTD: 3958'
 TD: 3960'

INJECTION WELL DATA SHEET

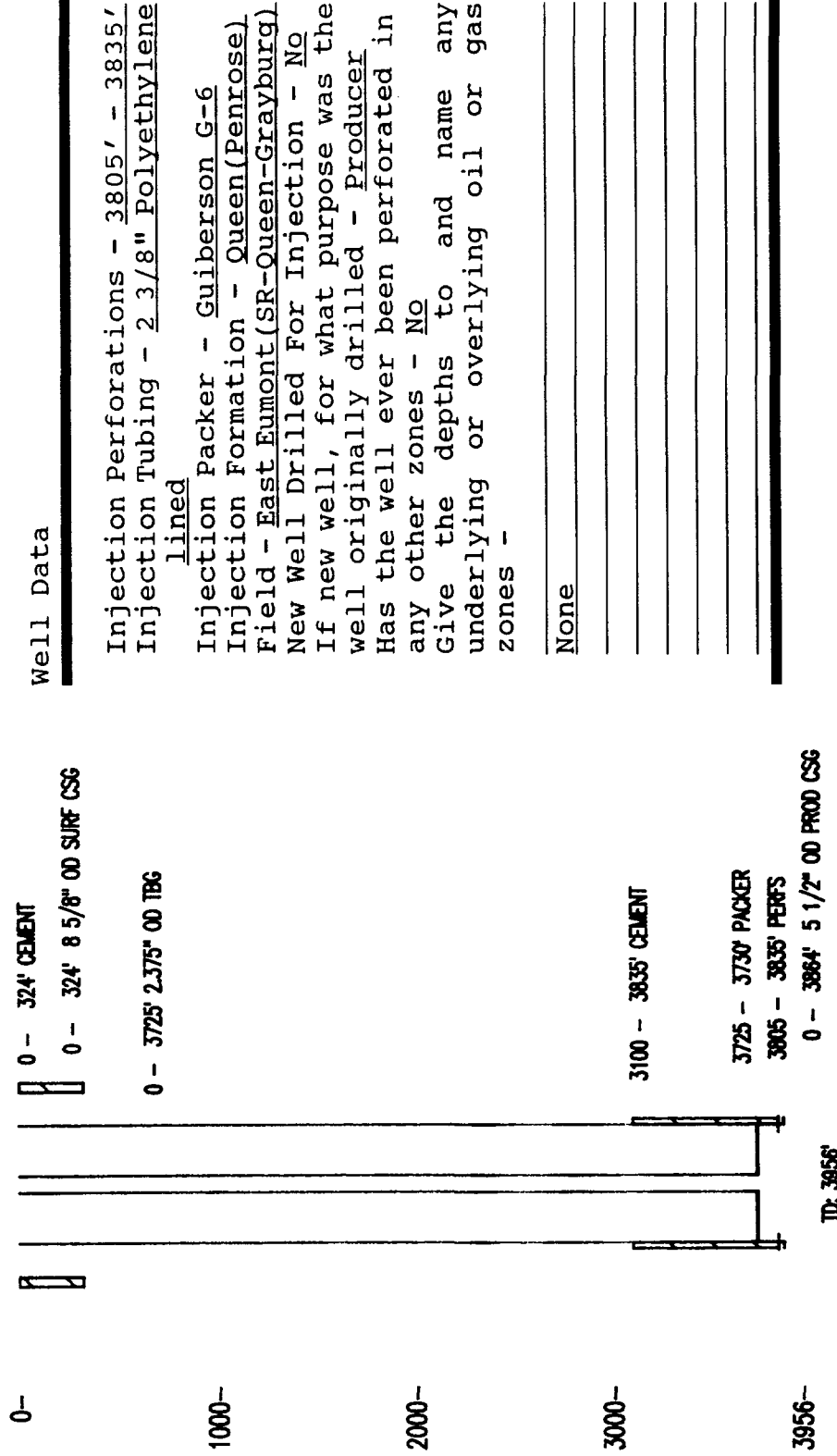
OXY USA Inc.

East Eumont Unit #16

2144' FWL, 589' FWL, Sec. 4, T-19S, R-37E

Casing - Cement Data

Type	Size	Hole Size	Cement	TOC -	Determined By
Surface	8 5/8"	11"	175 SX	Surface -	calculated
Production	5 1/2"	7 7/8"	200 SX	3100' -	calculated



TD: 3956'

INJECTION WELL DATA SHEET

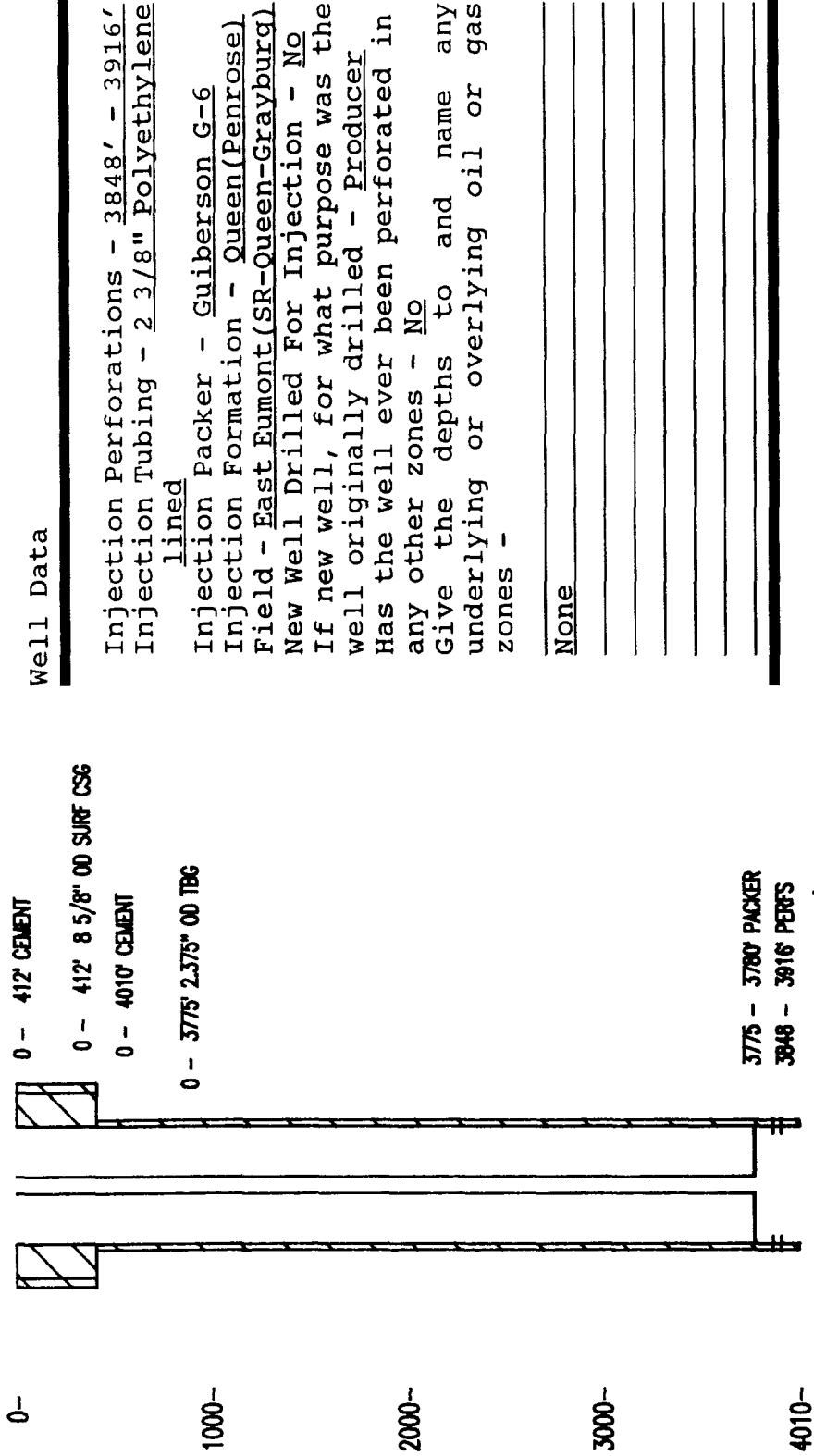
OXY USA Inc.

East Eumont Unit #18

1837 FM, 1650' FEL, Sec. 4, T-19S, R-37E

Casing - Cement Data

Type	Size	Hole Size	Cement	TOC -	Determined By
Surface	8 5/8"	11"	340 sx	Surface	circulated
Production	5 1/2"	7 7/8"	1230 sx	Surface	circulated



3775 - 3780' PACKER
 3848 - 3816' PERFS
 0 - 4001' 5 1/2" OD PROD CSG
 PBTD: 4001'
 TD: 4010'

INJECTION WELL DATA SHEET

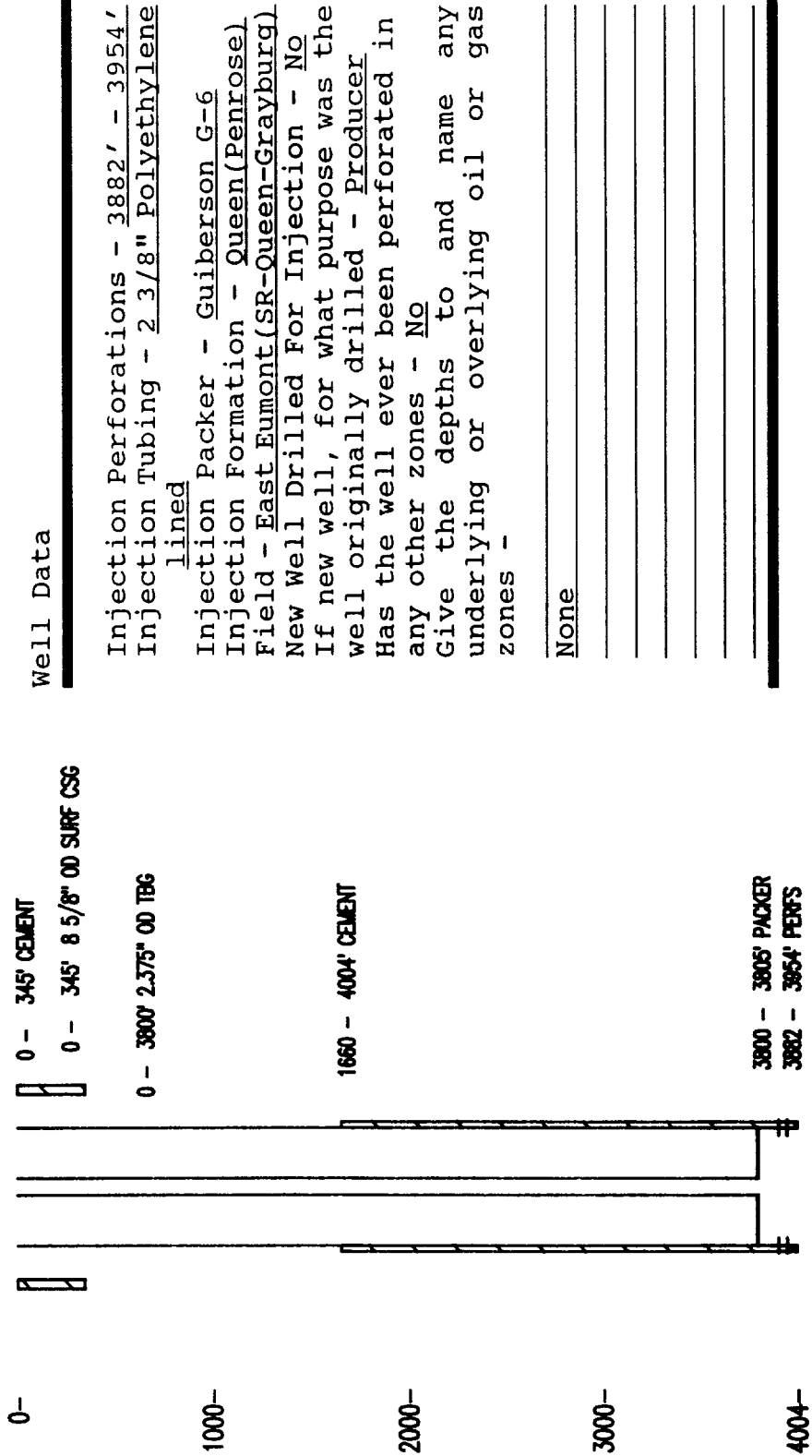
OXY USA Inc.

East Eumont Unit #20

2064' FNL, 660' FEL, Sec. 3, T-18S, R-37E

Casing - Cement Data

Type	Size	Hole Size	Cement	TOC -	Determined By
Surface	8 5/8"	12 1/4"	330 sx	Surface -	circulated
Production	5 1/2"	7 7/8"	675 sx	1660' -	calculated



FBTD: 3990'
 TD: 4004'

INJECTION WELL DATA SHEET

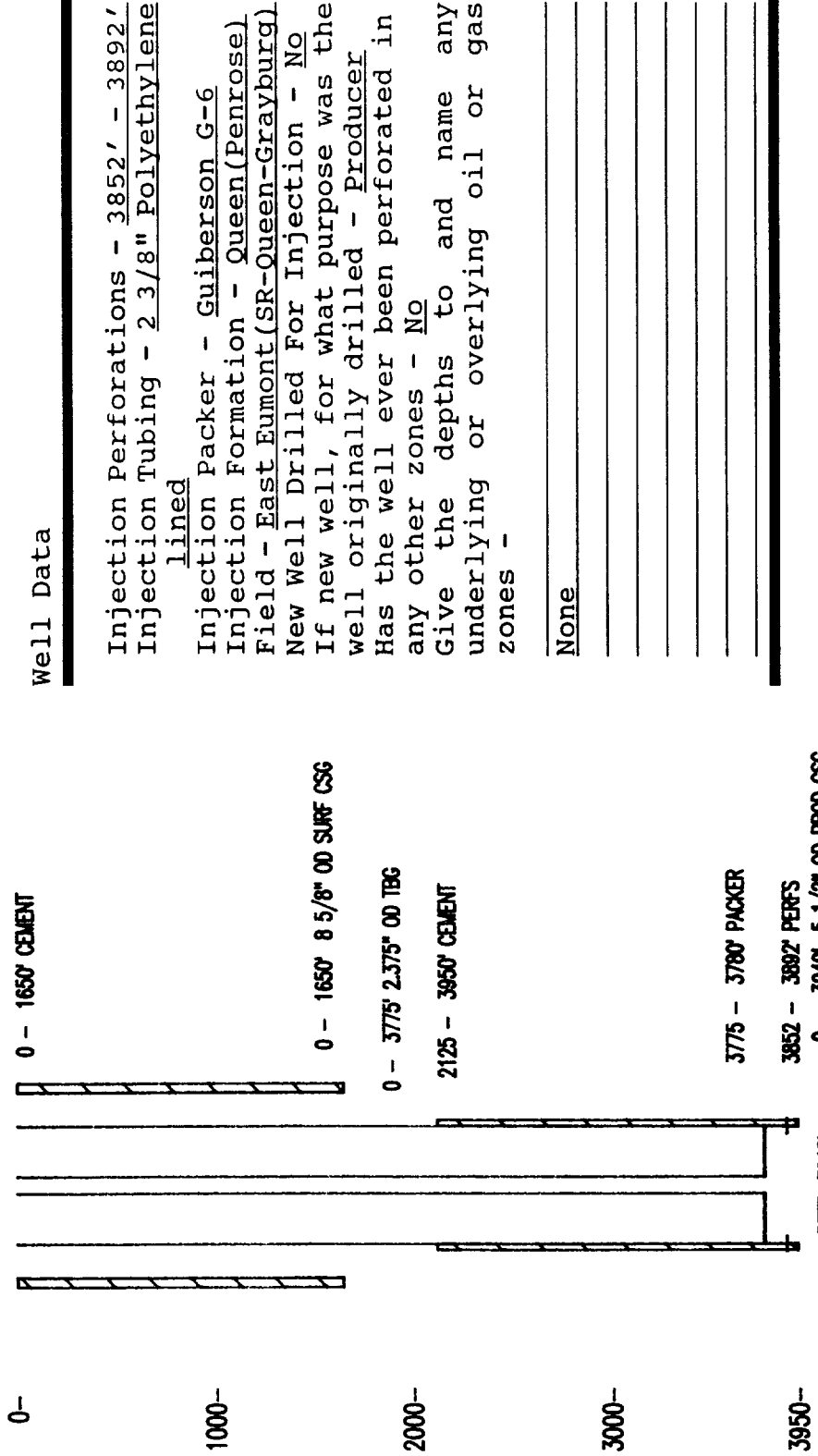
OXY USA Inc.

East Eumont Unit #22

1983 FSL, 660' FEL, Sec. 4, T-19S, R-37E

Casing - Cement Data

Type	Size	Hole Size	Cement	TOC -	Determined By
Surface	8 5/8"	11"	900 sx	Surface -	circulated
Production	5 1/2"	7 7/8"	550 sx	2125' -	temp. svy.



PBD: 3942
 TD: 3950

INJECTION WELL DATA SHEET

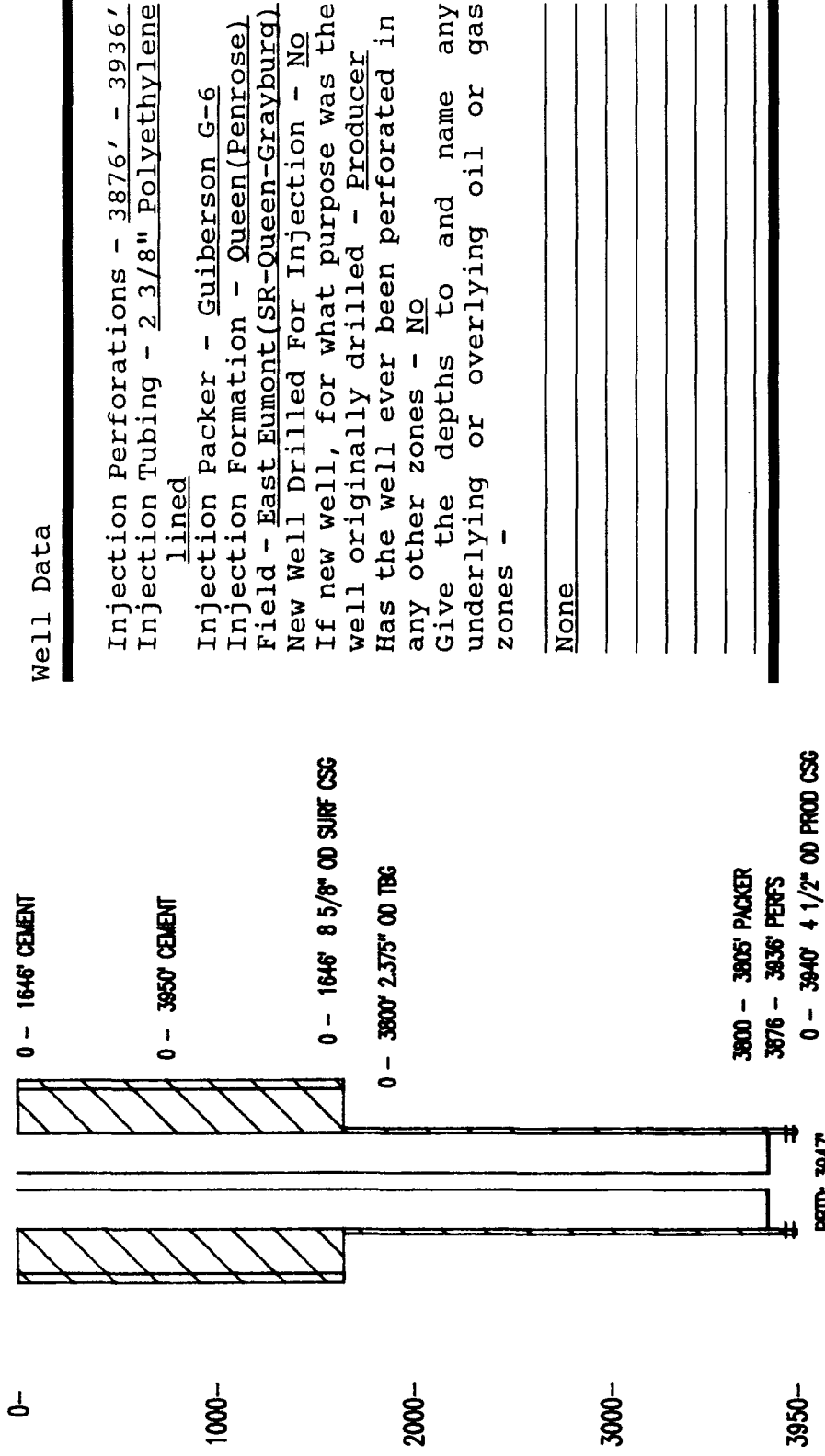
OXY USA Inc.

East Eumont Unit #25

660' FSL, 1980' FWL, Sec. 3, T-19S, R-37E

Casing - Cement Data

Type	Size	Hole Size	Cement	TOC -	Determined By
Surface	8 5/8"	11"	900 sx	Surface	- circulated
Production	4 1/2"	6 3/4"	1000 sx	Surface	- circulated



PRDID: 3947
 TD: 3950'

INJECTION WELL DATA SHEET

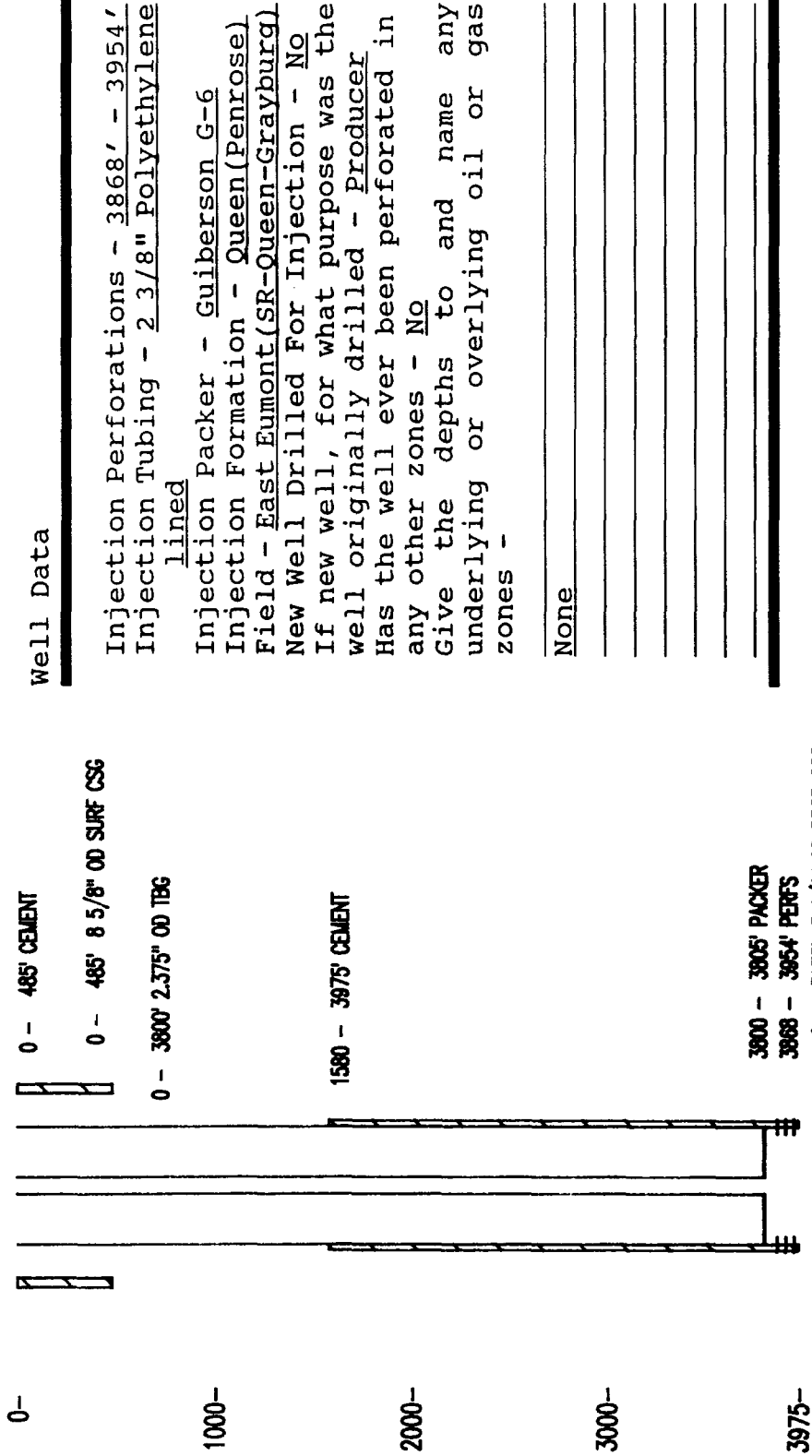
OXY USA Inc.

East Eumont Unit #28

660' FNL, 660' FEL, Sec. 9, T-19S, R-37E

Casing - Cement Data

Type	Size	Hole Size	Cement	TOC -	Determined By
Surface	8 5/8"	11"	300 sx	Surface	- circulated
Production	5 1/2"	7 3/4"	650 sx	1580'	- temp. svy.



PBID: 3966'
 TD: 3975'

INJECTION WELL DATA SHEET

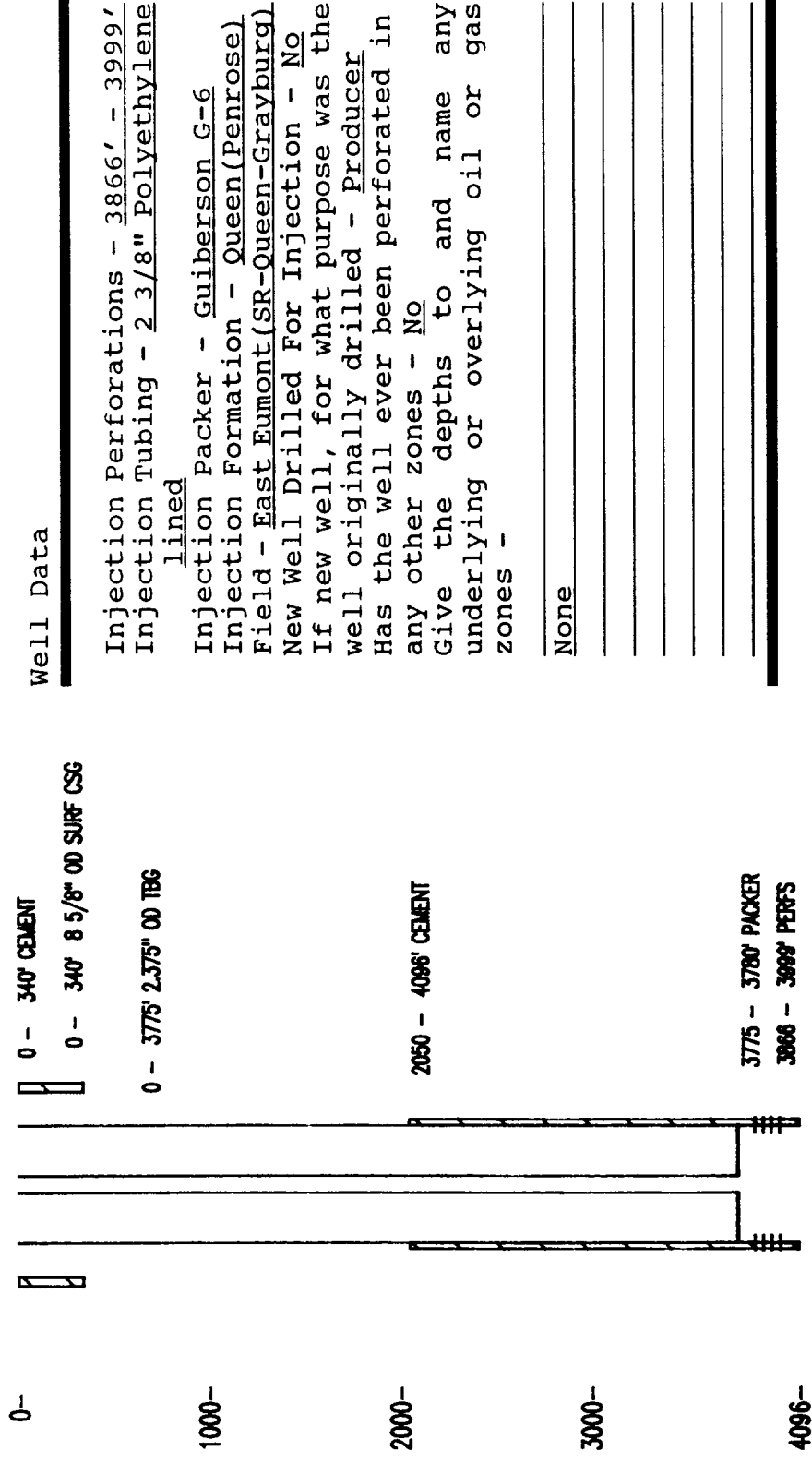
OXY USA Inc.

East Eumont Unit #30

660' FNL, 660' FNL, Sec. 10, T-19S, R-37E

Casing - Cement Data

Type	Size	Hole Size	Cement	TOC -	Determined By
Surface	8 5/8"	12 1/4"	275 sx	Surface	- circulated
Production	5 1/2"	7 7/8"	750 sx	2050'	- temp. svy.



Well Data

Injection Perforations - 3866' - 3999'
 Injection Tubing - 2 3/8" Polyethylene lined
 Injection Packer - Guiberson G-6
 Injection Formation - Queen (Penrose)
 Field - East Eumont (SR-Queen-Grayburg)
 New Well Drilled For Injection - No
 If new well, for what purpose was the well originally drilled - Producer
 Has the well ever been perforated in any other zones - No
 Give the depths to and name any underlying or overlying oil or gas zones -

None

PERF: 4061'
 TD: 4096'

3775 - 3780' PACKER
 3966 - 3999' PERFS

0 - 4096' 5 1/2" OD PROD CSG

2050 - 4096' CEMENT

INJECTION WELL DATA SHEET

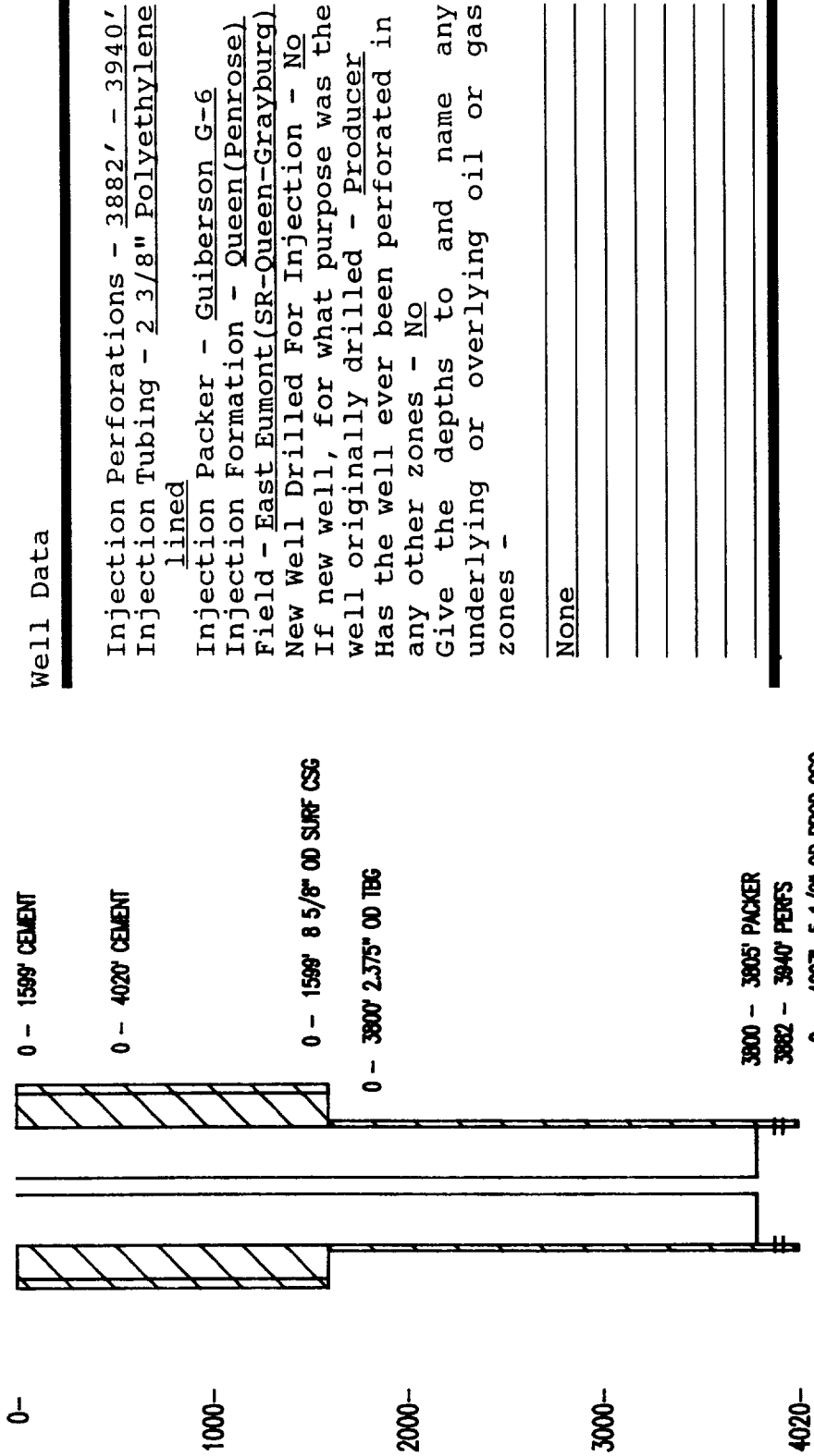
OXY USA Inc.

East Eumont Unit #32

1980' FWL, 660' FWL, Sec. 10, T-19S, R-37E

Casing - Cement Data

Type	Size	Hole Size	Cement	TOC -	Determined By
Surface	8 5/8"	12 1/4"	950 sx	Surface	- circulated
Production	5 1/2"	7 7/8"	890 sx	Surface	- circulated



Well Data

Injection Perforations - 3882' - 3940'
 Injection Tubing - 2 3/8" Polyethylene lined
 Injection Packer - Guiberson G-6
 Injection Formation - Queen (Penrose)
 Field - East Eumont (SR-Queen-Grayburg)
 New Well Drilled For Injection - No
 If new well, for what purpose was the well originally drilled - Producer
 Has the well ever been perforated in any other zones - No
 Give the depths to and name any underlying or overlying oil or gas zones -

None

PBTD: 4007'
 TD: 4020'

3800 - 3805' PACKER
 3882 - 3940' PERFS
 0 - 4007' 5 1/2" OD PROD CSG

INJECTION WELL DATA SHEET

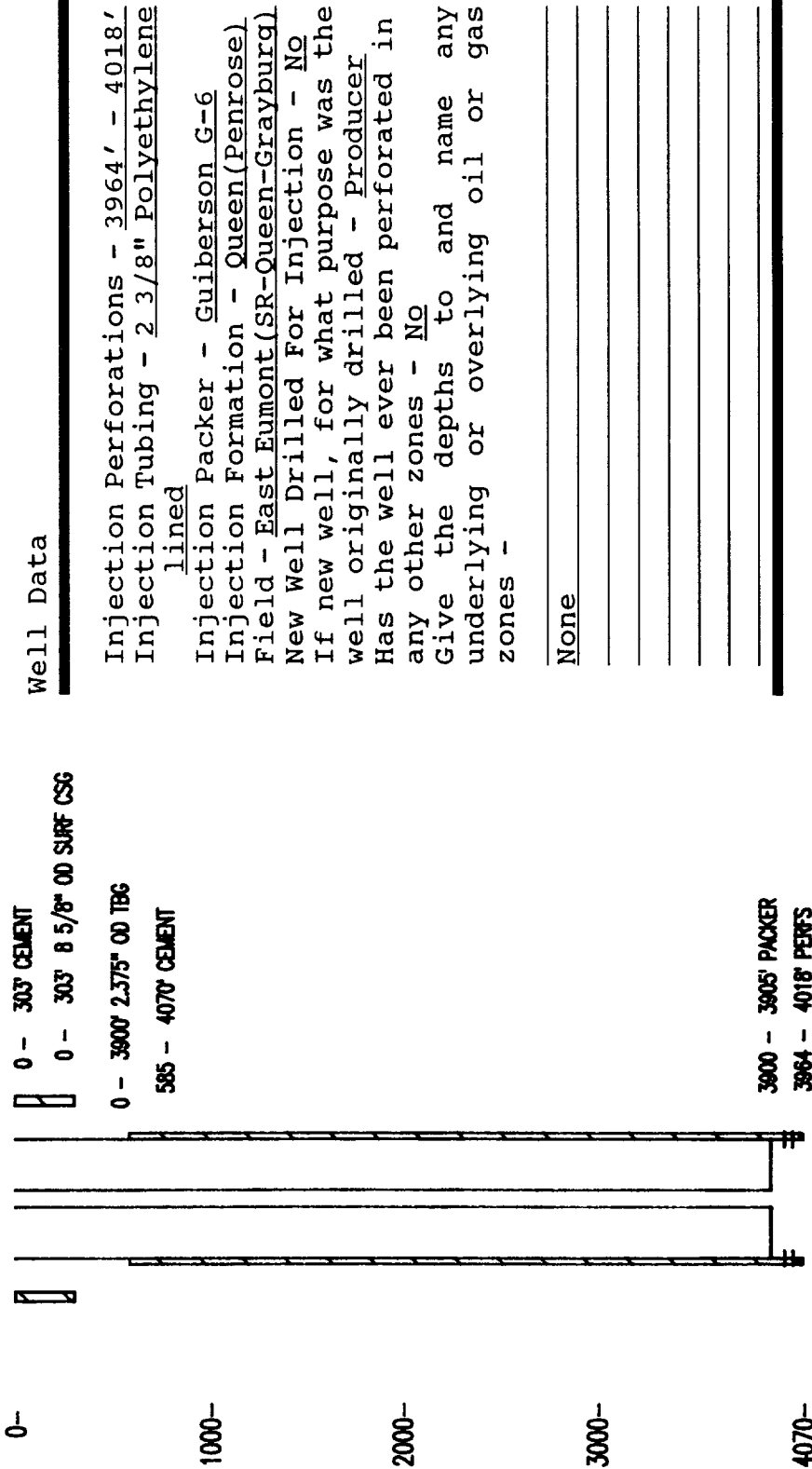
OXY USA Inc.

East Eumont Unit #35

1980 FSL, 1980 FWL, Sec. 10, T-19S, R-37E

Casing - Cement Data

Type	Size	Hole Size	Cement	TOC -	Determined By
Surface	8 5/8"	11 1/4"	200 sx	Surface -	circulated
Production	5 1/2"	7 7/8"	1750 sx	585'	- temp. svy.



FBID: 4030
 TD: 4070

INJECTION WELL DATA SHEET

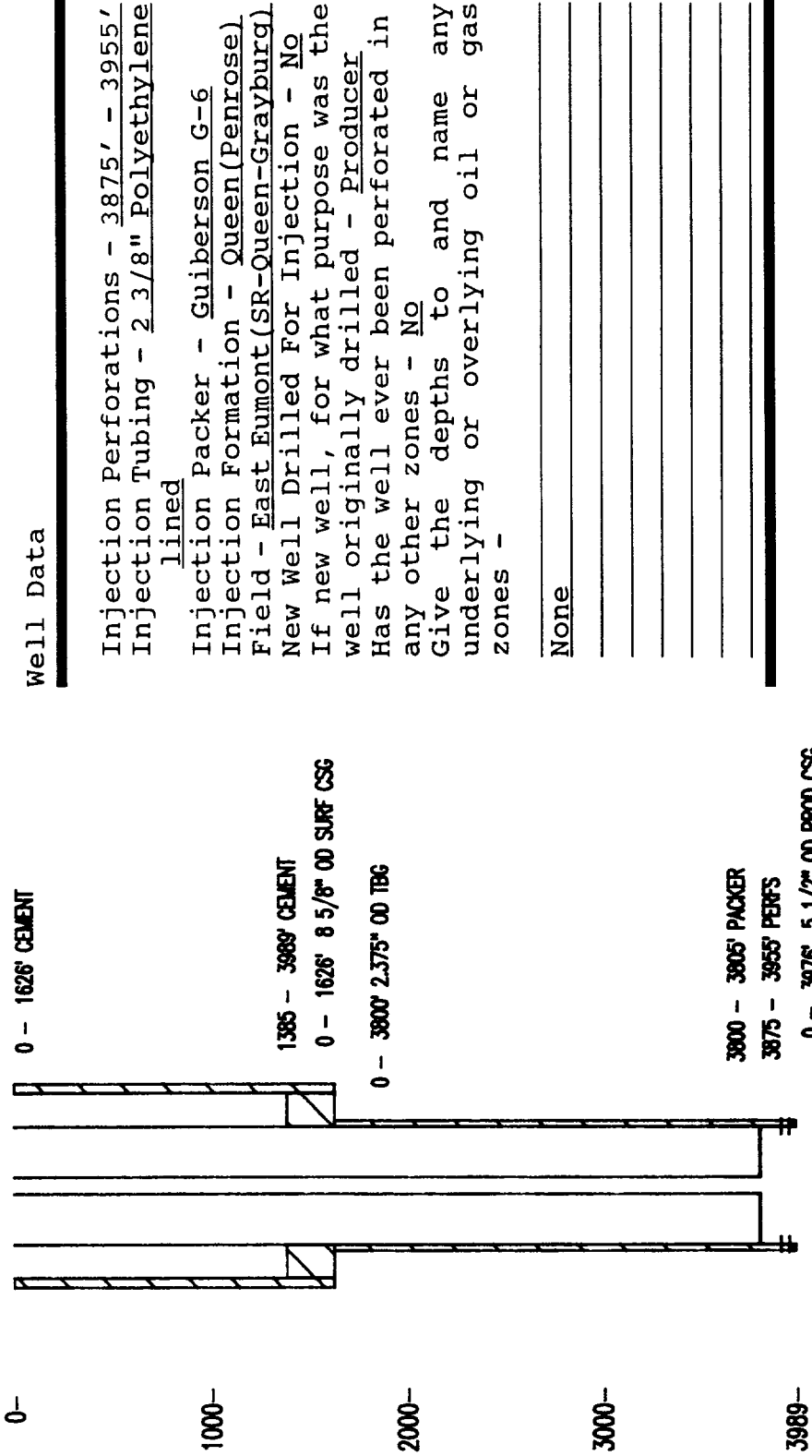
OXY USA Inc.

East Eumont Unit #56

660' FSL, 660' FML, Sec. 10, T-19S, R-37E

Casing - Cement Data

Type	Size	Hole Size	Cement	TOC -	Determined By
Surface	8 5/8"	11"	950 sx	Surface	- circulated
Production	5 1/2"	7 7/8"	1050 sx	1385'	- temp. svy.



INJECTION WELL DATA SHEET

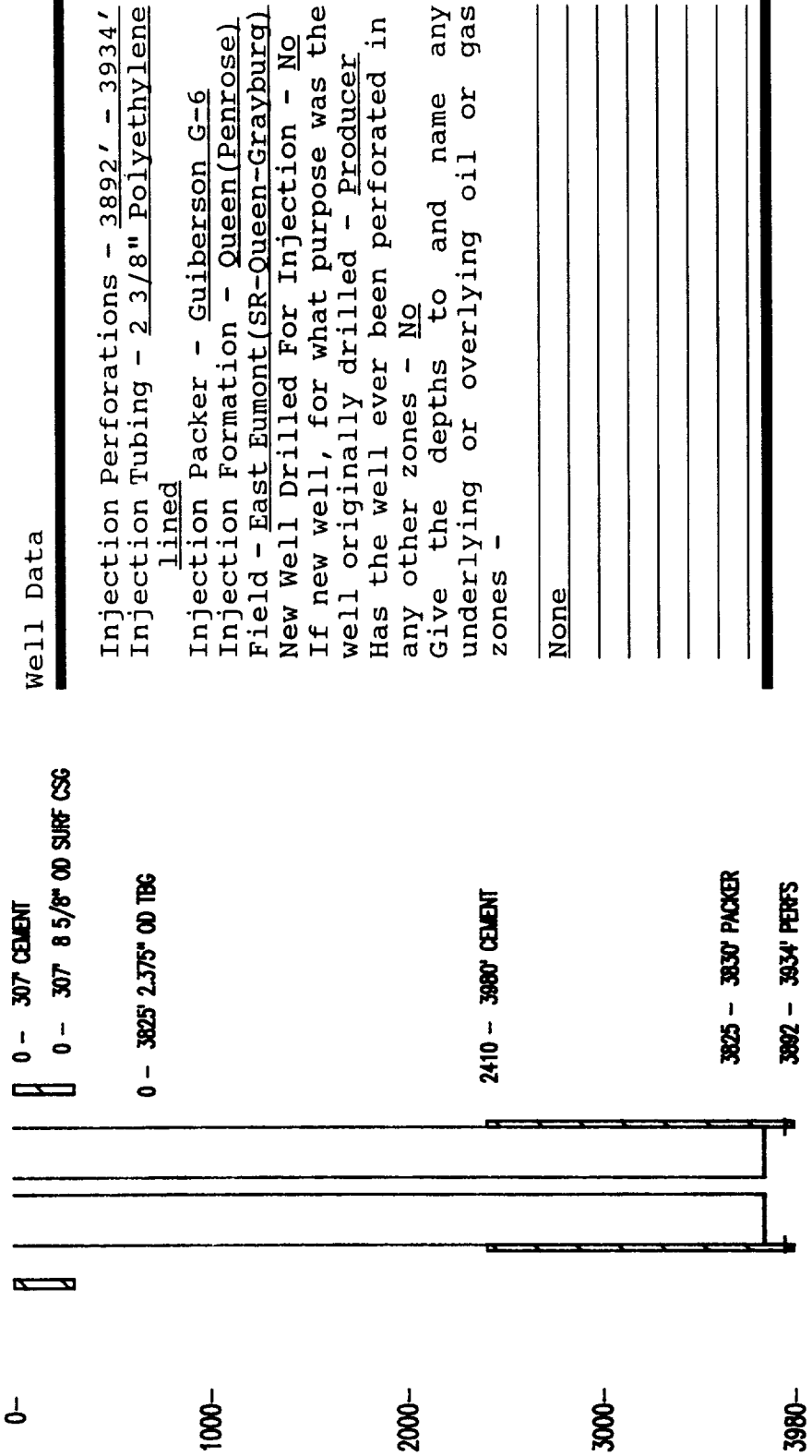
OXY USA Inc.

East Eumont Unit #57

660' FSL, 990' FEL, Sec. 16, T-19S, R-37E

Casing - Cement Data

Type	Size	Hole Size	Cement	TOC -	Determined By
Surface	8 5/8"	11"	225 sx	Surface	- circulated
Production	5 1/2"	7 7/8"	400 sx	2410'	- calculated



PBID: 3942
 ID: 3980

INJECTION WELL DATA SHEET

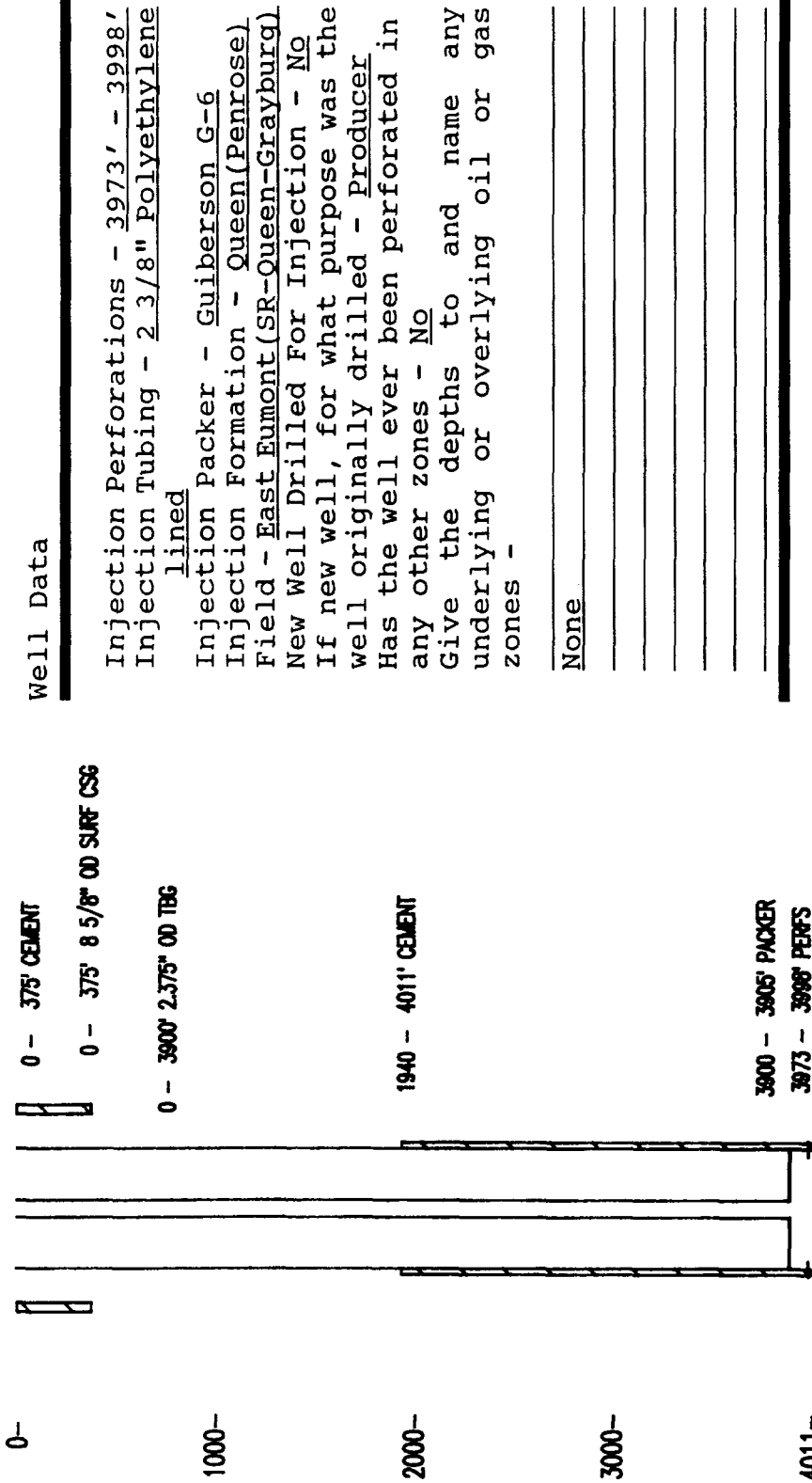
OXY USA Inc.

East Eumont Unit #39

660' FNL, 1980' FNL, Sec. 15, T-19S, R-37E

Casing - Cement Data

Type	Size	Hole Size	Cement	TOC -	Determined By
Surface	8 5/8"	12 1/4"	300 sx	Surface	- circulated
Production	5 1/2"	7 7/8"	800 sx	1940'	- temp. svy.



PBTD: 4005'
 TD: 4011'

INJECTION WELL DATA SHEET

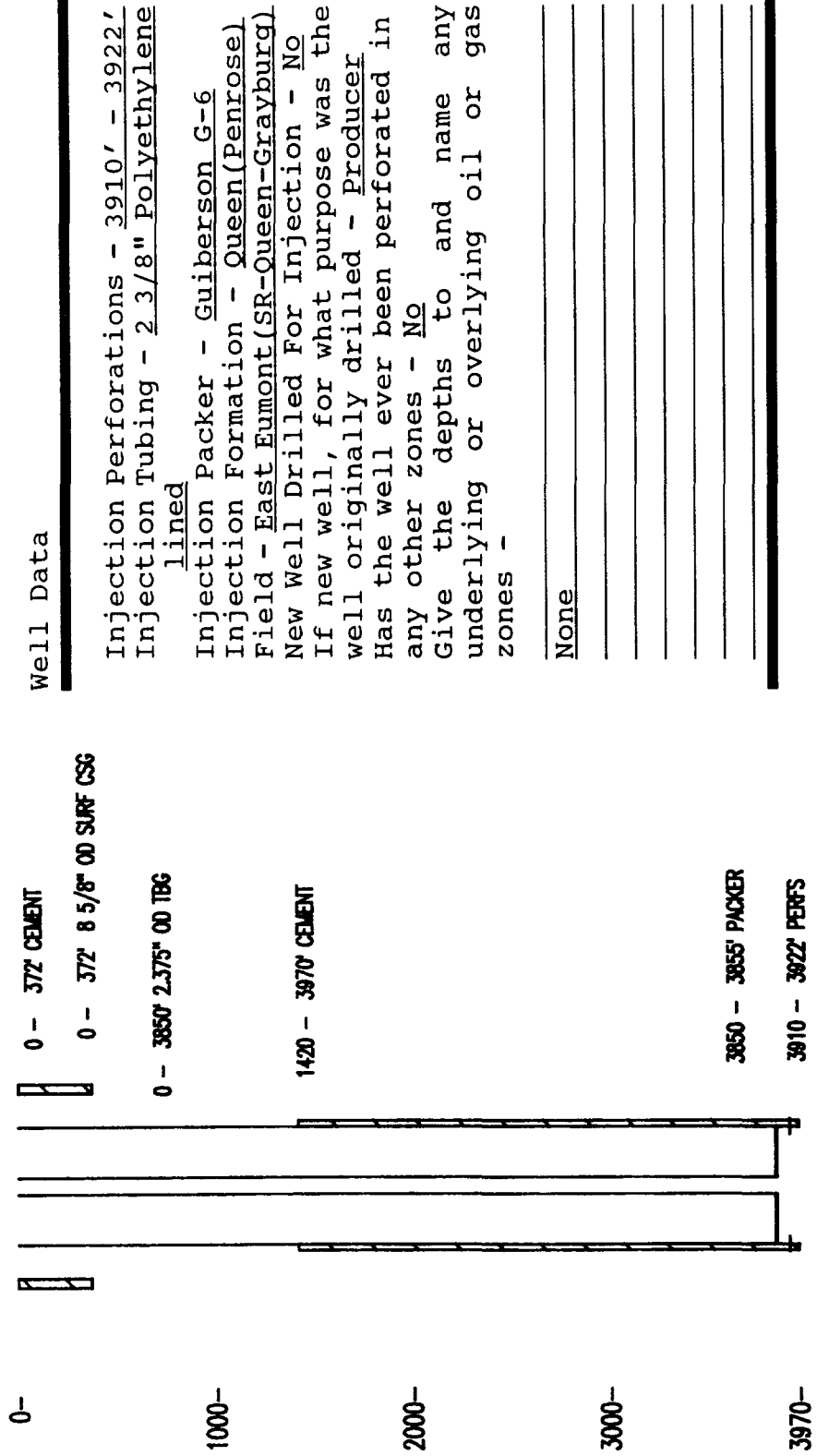
OXY USA Inc.

East Eumont Unit #41

1980' FWL, 660' FWL, Sec. 15, T-19S, R-37E

Casing - Cement Data

Type	Size	Hole Size	Cement	TOC -	Determined By
Surface	8 5/8"	12 1/4"	275 sx	Surface	- circulated
Production	5 1/2"	7 7/8"	1000 sx	1420'	- temp. svy.



Well Data

Injection Perforations - 3910' - 3922'
 Injection Tubing - 2 3/8" Polyethylene lined
 Injection Packer - Guiberson G-6
 Injection Formation - Queen (Penrose)
 Field - East Eumont (SR-Queen-Grayburg)
 New Well Drilled For Injection - No
 If new well, for what purpose was the well originally drilled - Producer
 Has the well ever been perforated in any other zones - No
 Give the depths to and name any underlying or overlying oil or gas zones -

None

PBTD: 3961'
 TD: 3970'

3850 - 3855' PACKER

3910 - 3922' PERFS

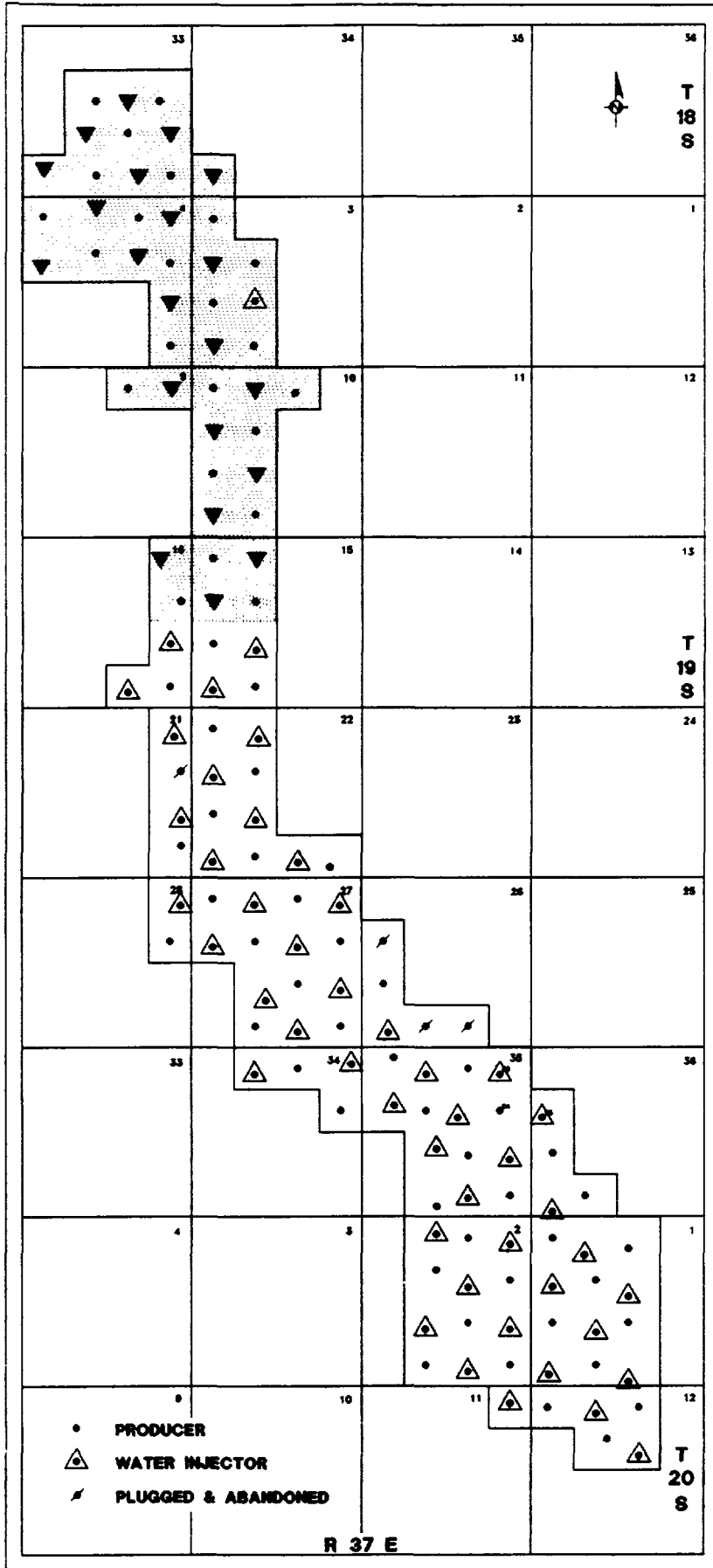
0 - 3965' 5 1/2" OD PROD CSG

1420 - 3970' CEMENT

0 - 372' CEMENT

0 - 372' 8 5/8" OD SURF CSG

0 - 3850' 2.375" OD TBG



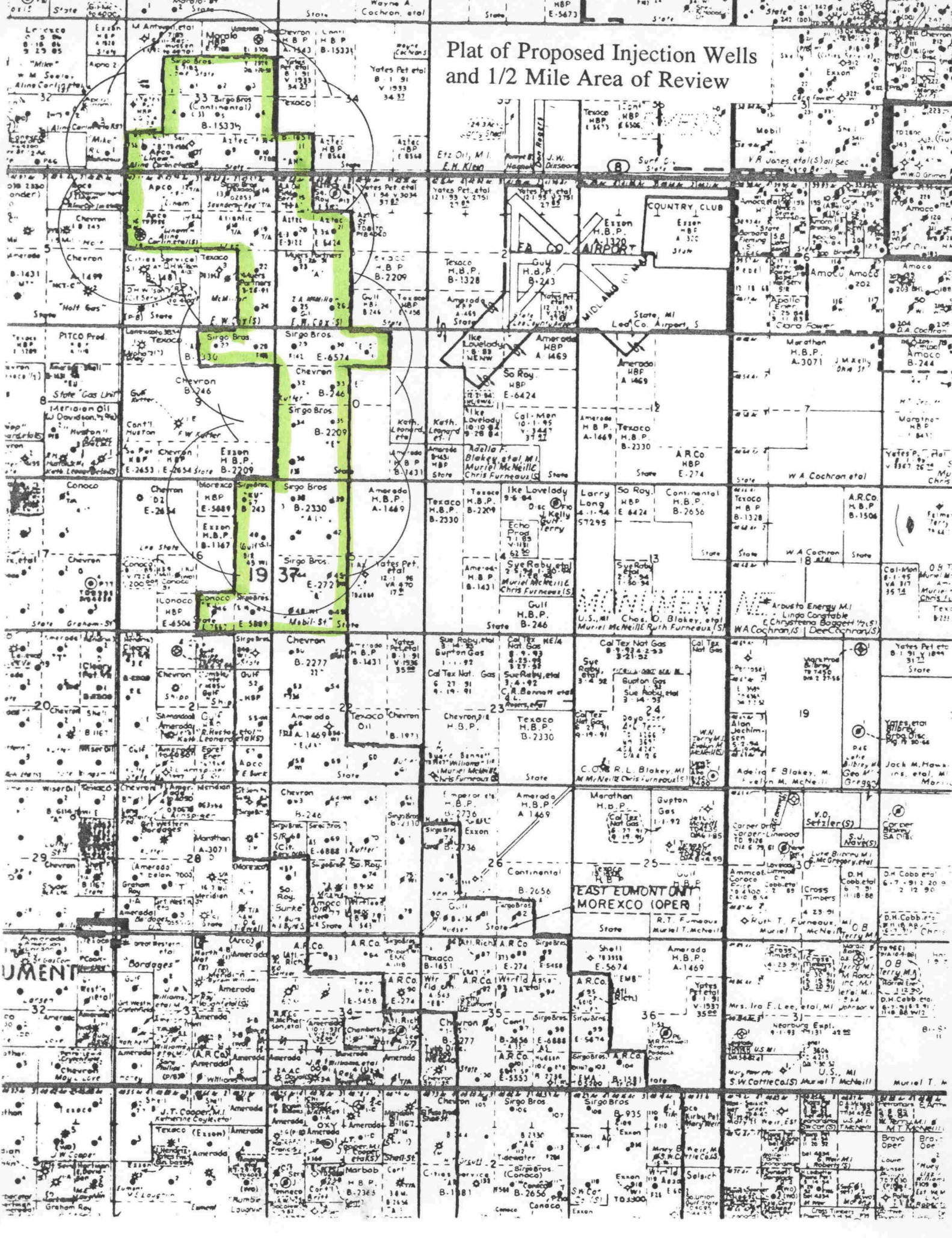
- PROPOSED PRODUCER
- ▲ PROPOSED WATER INJECTOR
- ▼ CONVERT TO WATER INJECTION

OXY USA Inc. - Operator
EAST EUMONT QUEEN UNIT
 Lee County, New Mexico

PROJECT AREA

 Revised 9/7/98
 Well Revised 5/26/99

Plat of Proposed Injection Wells and 1/2 Mile Area of Review



OFFSET WELL DATA

	Mike Well #1	Mike Well #3	State WH "A" Well #1	Low State Well #1	Ohio State Well #1
Location	660' FSL, 660' FEL Sec. 32, T-18S, R-37E	1650' FSL, 990' FEL Sec. 32, T-18S, R-37E	660' FSL, 660' FEL Sec. 33, T-18S, R-37E	660' FNL, 660' FWL Sec. 33, T-18S, R-37E	2310' FSL, 330' FWL Sec. 33, T-18S, R-37E
Operator	LANEXCO	LANEXCO	AMERADA	MORRIS R. ANTWEIL	GORDON M. CONE
Date Drilled	06/09/84	09/11/84	12/30/49	06/12/55	02/09/49
Well Type	Producer	Producer	P & A	P & A	P & A
Casing	8-5/8" @ 407' Cmtd w/ 200 sx 5-1/2" @ 4426' Cmtd w/ 800 sx	8-5/8" @ 419' Cmtd w/ 250 sx 5-1/2" @ 4237' Cmtd w/ 600 sx	10-3/4" @ 375' Cmtd w/ 275 sx 7-5/8" @ 2828' Cmtd w/ 850 sx Top of 7-5/8" @ 1223'	8-5/8" @ 305' Cmtd w/ 150 sx 5-1/2" @ 4100' Cmtd w/ 150 sx	8-5/8" @ 1600' Cmtd w/ N/A sx 5-1/2" @ 3700' Cmtd w/ 500 sx
Total Depth	4400'	4150'	4500'	4000'	3700'
Completion	Penrose perms @ 3924' - 4188'	Penrose perms @ 4075' - 4078', 4133' - 4137', 4165' - 4168'	N/A	N/A	N/A

	East Eumont Unit Well #1	East Eumont Unit Well #2	East Eumont Unit Well #3	East Eumont Unit Well #4	East Eumont Unit Well #5
Location	2310' FNL, 2310' FWL Sec. 33, T-18S, R-37E	2310' FNL, 1980' FEL Sec. 33, T-18S, R-37E	2310' FNL, 990' FEL Sec. 33, T-18S, R-37E	1980' FSL, 1980' FWL Sec. 33, T-18S, R-37E	1980' FSL, 1980' FEL Sec. 33, T-18S, R-37E
Operator	OXY USA Inc.	OXY USA Inc.	OXY USA Inc.	OXY USA Inc.	OXY USA Inc.
Date Drilled	09/23/56	12/21/56	03/08/57	02/14/57	10/31/56
Well Type	Producer	Producer	Producer	Producer	Producer
Casing	8-5/8" @ 307' Cmtd w/ 150 sx 5-1/2" @ 3969' Cmtd w/ 225 sx	8-5/8" @ 301' Cmtd w/ 165 sx 5-1/2" @ 4011' Cmtd w/ 250 sx	8-5/8" @ 311' Cmtd w/ 150 sx 5-1/2" @ 4036' Cmtd w/ 250 sx	8-5/8" @ 299' Cmtd w/ 225 sx 5-1/2" @ 4035' Cmtd w/ 300 sx	8-5/8" @ 328' Cmtd w/ 275 sx 5-1/2" @ 3998' Cmtd w/ 1200 sx
Total Depth	3970'	4012'	4040'	4035'	4000'
Completion	Penrose perms @ 3908' - 3936', 3950' - 3968'	Penrose perms @ 3929' - 3935', 3953' - 3959', 3975' - 3979', 3982' - 3984', 3991 - 3993'	Penrose perms @ 3945' - 3954', 3966' - 3975', 3985' - 3990'	Penrose perms @ 3858' - 3908', 3925' - 3940', 3952' - 3964', 3970' - 3974', 3980' - 3984'	Penrose perms @ 3848' - 3860', 3868' - 3890', 3896' - 3912', 3926' - 3935', 3940' - 3954'

OFFSET WELL DATA

	East Eumort Unit Well #6	East Eumort Unit Well #7	East Eumort Unit Well #8	East Eumort Unit Well #9	East Eumort Unit Well #10
Location	1980' FSL, 660' FEL Sec. 33, T-18S, R-37E	880' FSL, 660' FWL Sec. 33, T-18S, R-37E	660' FSL, 2310' FWL Sec. 33, T-18S, R-37E	660' FSL, 1650' FEL Sec. 33, T-18S, R-37E	660' FSL, 660' FEL Sec. 33, T-18S, R-37E
Operator	OXY USA Inc.	OXY USA Inc.	OXY USA Inc.	OXY USA Inc.	OXY USA Inc.
Date Drilled	10/20/56	05/29/56	09/09/56	06/23/56	05/25/56
Well Type	Producer	Producer	Producer	Producer	Producer
Casing	8-5/8" @ 303' Cmtd w/ 275 sx 5-1/2" @ 4000' Cmtd w/ 1225 sx	8-5/8" @ 1541' Cmtd w/ 800 sx 5-1/2" @ 3965' Cmtd w/ 400 sx	8-5/8" @ 1610' Cmtd w/ 750 sx 5-1/2" @ 4040' Cmtd w/ 450 sx	8-5/8" @ 339' Cmtd w/ 275 sx 5-1/2" @ 4096' Cmtd w/ 500 sx	8-5/8" @ 326' Cmtd w/ 325 sx 5-1/2" @ 4275' Cmtd w/ 800 sx
Total Depth	4000'	3965'	4050'	4096'	4400'
Completion	Penrose perms @ 3838' - 3856', 3864' - 3872', 3934' - 3954', 3960' - 3974', 3980' - 3999'	Penrose perms @ 3880' - 3910', 3926' - 3946'	Penrose perms @ 3870' - 3930', 3970' - 4010'	Penrose perms @ 3912' - 3962'	Penrose perms @ 3910' - 3920', 3928' - 3972'

	East Eumort Unit Well #11	East Eumort Unit Well #15	State AB Well #1	East Eumort Unit Well #20	East Eumort Unit Well #21
Location	660' FSL, 660' FWL Sec. 34, T-18S, R-37E	702' FNL, 660' FWL Sec. 3, T-19S, R-37E	660' FNL, 1980' FWL Sec. 3, T-19S, R-37E	2064' FNL, 660' FWL Sec. 3, T-19S, R-37E	2061' FNL, 1980' FWL Sec. 3, T-19S, R-37E
Operator	OXY USA Inc.	OXY USA Inc.	A & A OILFIELD SERVICE	OXY USA Inc.	OXY USA Inc.
Date Drilled	09/24/56	04/22/56	05/25/71	02/29/56	04/25/56
Well Type	Producer	Producer	SWD	Producer	Producer
Casing	8-5/8" @ 371' Cmtd w/ 300 sx 5-1/2" @ 4012' Cmtd w/ 800 sx	8-5/8" @ 335' Cmtd w/ 325 sx 5-1/2" @ 4007' Cmtd w/ 700 sx	8-5/8" @ 1700' Cmtd w/ 200 sx 5-1/2" @ 8100' Cmtd w/ 650 sx	8-5/8" @ 345' Cmtd w/ 330 sx 5-1/2" @ 4004' Cmtd w/ 675 sx	8-5/8" @ 343' Cmtd w/ 325 sx 5-1/2" @ 4028' Cmtd w/ 700 sx
Total Depth	4015'	4007'	8100'	4004'	4028'
Completion	Penrose perms @ 3908' - 3970'	Penrose perms @ 3904' - 3970'	N/A	Penrose perms @ 3882' - 3954'	Penrose perms @ 3946' - 3966'

OFFSET WELL DATA

	East Eumort Unit Well #23	East Eumort Unit Well #25	East Eumort Unit Well #26	Z. A. McMillan "B" Well #3	State AT Well #1
Location	1982' FSL, 660' FWL Sec. 3, T-19S, R-37E OXY USA Inc.	660' FSL, 660' FWL Sec. 3, T-19S, R-37E OXY USA Inc.	660' FSL, 1980' FWL Sec. 3, T-19S, R-37E OXY USA Inc.	660' FSL, 1980' FWL Sec. 4, T-19S, R-37E TEXACO	660' FSL, 660' FWL Sec. 4, T-19S, R-37E DON H. WILSON
Date Drilled	12/12/48	06/23/56	02/13/57	09/12/56	05/27/77
Well Type	Producer	Producer	Producer	P & A	P & A
Casing	13-3/8" @ 292' Cmtd w/ 325 sx 9-5/8" @ 3170' Cmtd w/ 1400 sx 5-1/2" @ 4023' Cmtd w/ 1000 sx	8-5/8" @ 1646' Cmtd w/ 900 sx 4-1/2" @ 3940' Cmtd w/ 1000 sx	8-5/8" @ 1650' Cmtd w/ 900 sx 4-1/2" @ 4050' Cmtd w/ 600 sx	8-5/8" @ 1597' Cmtd w/ 1300 sx 4-1/2" @ 3939' Cmtd w/ 300 sx	8-5/8" @ 310' Cmtd w/ N/A sx 5-1/2" @ 3986' Cmtd w/ 600 sx
Total Depth	7448'	3950'	4050'	3950'	3875'
Completion	Penrose perfs @ 3854' - 3934'	Penrose perfs @ 3876' - 3936'	Penrose perfs @ 3890' - 3950'	Penrose perfs @ 3714' - 3756', 3794' - 3816'	N/A

	East Eumort Unit Well #12	East Eumort Unit Well #13	East Eumort Unit Well #14	East Eumort Unit Well #16	East Eumort Unit Well #17
Location	273' FNL, 2400' FWL Sec. 4, T-19S, R-37E OXY USA Inc.	660' FNL, 1652' FEL Sec. 4, T-19S, R-37E OXY USA Inc.	660' FNL, 660' FEL Sec. 4, T-19S, R-37E OXY USA Inc.	2144' FNL, 589' FWL Sec. 4, T-19S, R-37E OXY USA Inc.	1739' FNL, 2304' FWL Sec. 4, T-19S, R-37E OXY USA Inc.
Date Drilled	09/25/56	08/15/56	07/02/56	01/02/54	05/04/57
Well Type	Producer	Producer	Producer	Producer	Producer
Casing	8-5/8" @ 1601' Cmtd w/ 750 sx 5-1/2" @ 4070' Cmtd w/ 550 sx	8-5/8" @ 1648' Cmtd w/ 800 sx 4-1/2" @ 3958' Cmtd w/ 500 sx	8-5/8" @ 1650' Cmtd w/ 900 sx 4-1/2" @ 3958' Cmtd w/ 700 sx	8-5/8" @ 324' Cmtd w/ 175 sx 5-1/2" @ 3864' Cmtd w/ 200 sx	8-5/8" @ 1632' Cmtd w/ 350 sx 5-1/2" @ 3969' Cmtd w/ 600 sx
Total Depth	4080'	3965'	3960'	3956'	3969'
Completion	Penrose perfs @ 3890' - 3902', 3922' - 3950'	Penrose perfs @ 3875' - 3960'	Penrose perfs @ 3884' - 3954'	Penrose perfs @ 3805' - 3835'	Penrose perfs @ 3874' - 3889', 3909' - 3912', 3920' - 3930'

OFFSET WELL DATA

	East Eumort Unit Well #18	East Eumort Unit Well #19	East Eumort Unit Well #22	East Eumort Unit Well #24	J. R. Holt NCT - C Well #1
Location	1837' FNL, 1650' FEL Sec. 4, T-19S, R-37E OXY USA Inc.	2060' FNL, 660' FEL Sec. 4, T-19S, R-37E OXY USA Inc.	1983' FSL, 660' FEL Sec. 4, T-19S, R-37E OXY USA Inc.	660' FSL, 660' FEL Sec. 4, T-19S, R-37E OXY USA Inc.	1980' FNL, 1980' FEL Sec. 5, T-19S, R-37E CHEVRON
Operator	OXY USA Inc.	OXY USA Inc.	OXY USA Inc.	OXY USA Inc.	CHEVRON
Date Drilled	01/29/57	12/23/56	03/14/56	06/12/56	?/?/80
Well Type	Producer	Producer	Producer	Producer	Producer
Casing	8-5/8" @ 412' Cmtd w/ 340 sx 5-1/2" @ 400' Cmtd w/ 1230 sx	8-5/8" @ 441' Cmtd w/ 300 sx 5-1/2" @ 4012' Cmtd w/ 1500 sx	8-5/8" @ 1650' Cmtd w/ 900 sx 5-1/2" @ 3949' Cmtd w/ 550 sx	8-5/8" @ 1621' Cmtd w/ 900 sx 4-1/2" @ 3943' Cmtd w/ 550 sx	8-5/8" @ 354' Cmtd w/ 325 sx 4-1/2" @ 3886' Cmtd w/ 1325 sx
Total Depth	4010'	4025'	3950'	3955'	0000''3900'
Completion	Penrose perfs @ 3848' - 3862', 3872' - 3880', 3904' - 3916'	Penrose perfs @ 3866' - 3876', 3888' - 3898', 3908' - 3932', 3994' - 4009',	Penrose perfs @ 3852' - 3892'	Penrose perfs @ 3894' - 3950'	Penrose perfs @ 3546' - 3884'

	J. R. Holt NCT - C Well #2	East Eumort Unit Well #27	East Eumort Unit Well #28	East Eumort Unit Well #29	East Eumort Unit Well #30
Location	1190' FSL, 1195' FEL Sec. 5, T-19S, R-37E CHEVRON	660' FNL, 1980' FEL Sec. 9, T-19S, R-37E OXY USA Inc.	660' FNL, 660' FEL Sec. 9, T-19S, R-37E OXY USA Inc.	660' FNL, 660' FWL Sec. 10, T-19S, R-37E OXY USA Inc.	660' FNL, 1950' FWL Sec. 10, T-19S, R-37E OXY USA Inc.
Operator	CHEVRON	OXY USA Inc.	OXY USA Inc.	OXY USA Inc.	OXY USA Inc.
Date Drilled	02/28/91	12/31/56	03/08/56	07/08/56	08/07/56
Well Type	Producer	Producer	Producer	Producer	Producer
Casing	8-5/8" @ 1250' Cmtd w/ 900 sx 5-1/2" @ 3900' Cmtd w/ 650 sx	8-5/8" @ 372' Cmtd w/ 275 sx 5-1/2" @ 3979' Cmtd w/ 800 sx	8-5/8" @ 485' Cmtd w/ 300 sx 5-1/2" @ 3975' Cmtd w/ 650 sx	8-5/8" @ 343' Cmtd w/ 275 sx 5-1/2" @ 4078' Cmtd w/ 700 sx	8-5/8" @ 340' Cmtd w/ 275 sx 5-1/2" @ 4096' Cmtd w/ 750 sx
Total Depth	3900'	3980'	3975'	4080'	4096'
Completion	Penrose perfs @ 3790' - 3868' Unknown Zone Perfs @ 2792' - 3023'	Penrose perfs @ 3898' - 3914'	Penrose perfs @ '3868' - 3879', 3891' - 3954'	Penrose perfs @ 3870' - 3920', 4009' - 4023'	Penrose perfs @ 3866' - 3872', 3876' - 3890', 3896' - 3940', 3946' - 3952', 3955' - 3960', 3976' - 3982', 3987' - 3999'

OFFSET WELL DATA

	East Eumont Unit Well #31	East Eumont Unit Well #32	East Eumont Unit Well #33	East Eumont Unit Well #34	East Eumont Unit Well #35
Location	800' FNL, 2080' FEL Sec. 10, T-19S, R-37E	1980' FNL, 660' FWL Sec. 10, T-19S, R-37E	1980' FNL, 660' FWL Sec. 10, T-19S, R-37E	1980' FSL, 660' FWL Sec. 10, T-19S, R-37E	1980' FSL, 1980' FWL Sec. 10, T-19S, R-37E
Operator	OXY USA Inc.	OXY USA Inc.	OXY USA Inc.	OXY USA Inc.	OXY USA Inc.
Date Drilled	08/09/56	06/10/56	12/19/56	07/23/57	06/12/57
Well Type	Producer	Producer	Producer	Producer	Producer
Casing	8-5/8" @ 336' Cmtd w/ 275 sx 5-1/2" @ 4140' Cmtd w/ 700 sx	8-5/8" @ 1599' Cmtd w/ 950 sx 5-1/2" @ 4007' Cmtd w/ 890 sx	8-5/8" @ 246' Cmtd w/ 200 sx 5-1/2" @ 4097' Cmtd w/ 1500 sx	8-5/8" @ 317' Cmtd w/ 200 sx 5-1/2" @ 4053' Cmtd w/ 1800 sx	8-5/8" @ 303' Cmtd w/ 200 sx 5-1/2" @ 4057' Cmtd w/ 1750 sx
Total Depth	4140'	4020'	4120'	4065'	4070'
Completion	Penrose perfs @ 3816' - 3834', 3844' - 3852', 3952' - 3995', 4088' - 4098', 4120' - 4132'	Penrose perfs @ 3882' - 3940'	Penrose perfs @ 3922' - 3985', 4024' - 4050', 4068' - 4100'	Penrose perfs @ 3905' - 3916', 3924' - 3932', 3938' - 3946'	Penrose perfs @ 3964' - 3972', 3978' - 4005', 4011' - 4018'
Location	660' FSL, 660' FWL Sec. 10, T-19S, R-37E	660' FNL, 660' FWL Sec. 15, T-19S, R-37E	660' FNL, 1980' FWL Sec. 15, T-19S, R-37E	1980' FNL, 660' FWL Sec. 15, T-19S, R-37E	1980' FNL, 1980' FWL Sec. 15, T-19S, R-37E
Operator	OXY USA Inc.	OXY USA Inc.	OXY USA Inc.	OXY USA Inc.	OXY USA Inc.
Date Drilled	06/06/56	11/19/56	07/20/57	01/05/57	04/06/57
Well Type	Producer	Producer	Producer	Producer	Producer
Casing	8-5/8" @ 1626' Cmtd w/ 950 sx 5-1/2" @ 3976'	8-5/8" @ 370' Cmtd w/ 300 sx 5-1/2" @ 3987' Cmtd w/ 800 sx	8-5/8" @ 375' Cmtd w/ 300 sx 5-1/2" @ 4009' Cmtd w/ 800 sx	8-5/8" @ 372' Cmtd w/ 275 sx 5-1/2" @ 3965' Cmtd w/ 1000 sx	8-5/8" @ 372' Cmtd w/ 300 sx 5-1/2" @ 4002' Cmtd w/ 800 sx
Total Depth	3989	3990'	4011'	3970'	4005'
Completion	Penrose perfs @ 3875' - 3955'	Penrose perfs @ 3916' - 3932'	Penrose perfs @ 3973' - 3981', 3985' - 3998'	Penrose perfs @ 3910' - 3922'	Penrose perfs @ 3980' - 3994'

OFFSET WELL DATA

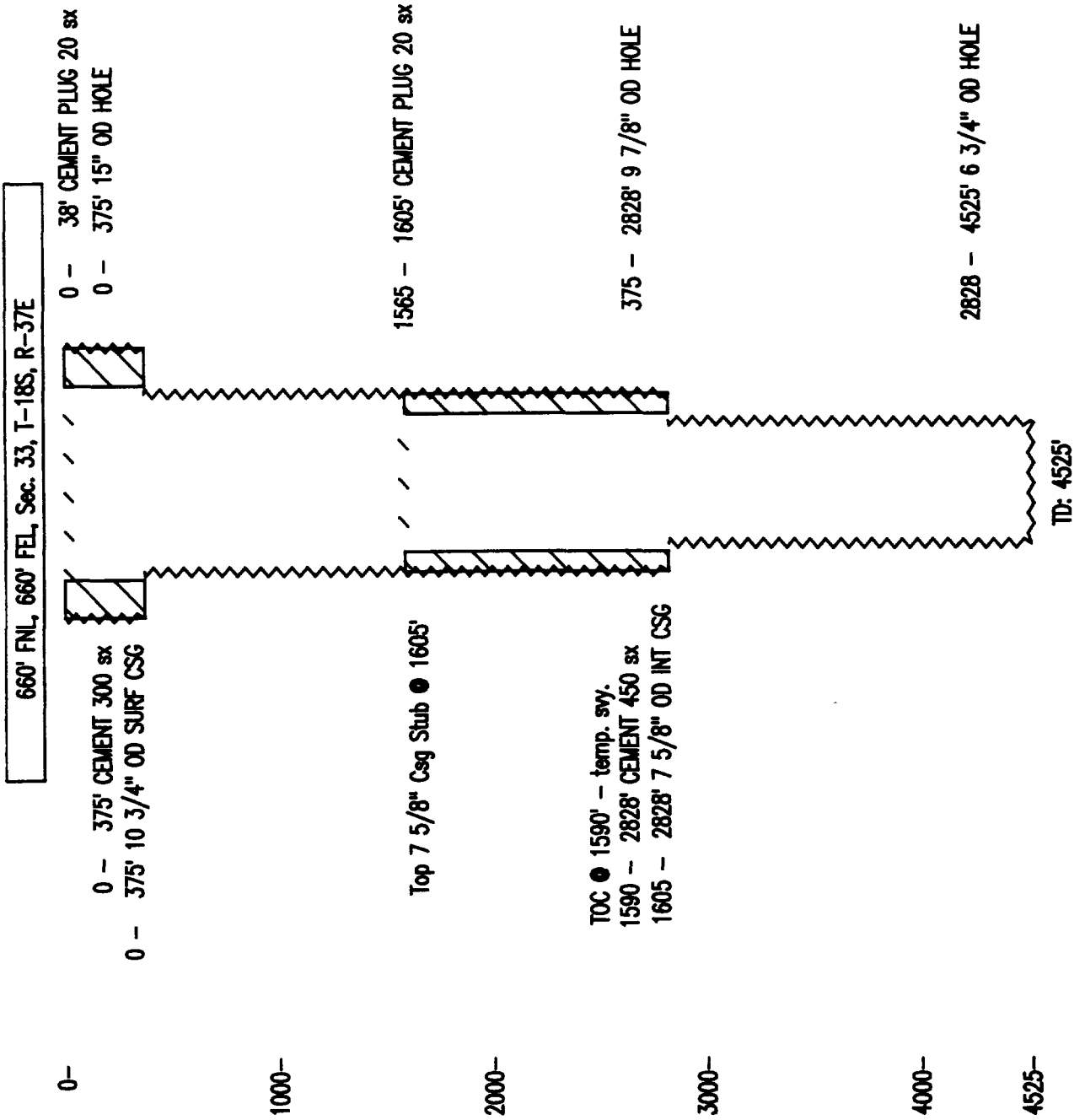
	East Eumont Unit Well #44	East Eumont Unit Well #45	East Eumont Unit Well #48	East Eumont Unit Well #49	State KI - 16 Well #1
Location	1980' FSL, 660' FWL Sec. 15, T-19S, R-37E	1980' FSL, 1980' FWL Sec. 15, T-19S, R-37E	660' FSL, 660' FWL Sec. 15, T-19S, R-37E	660' FSL, 1978' FWL Sec. 15, T-19S, R-37E	1980' FSL, 1980' FWL Sec. 16, T-19S, R-37E
Operator	OXY USA Inc.	OXY USA Inc.	OXY USA Inc.	OXY USA Inc.	CONOCO
Date Drilled	03/28/57	05/21/57	02/20/57	07/19/57	N/A
Well Type	Producer	Injector	Injector	Producer	P & A
Casing	8-5/8" @ 378' Cmtd w/ 160 sx 5-1/2" @ 4000' Cmtd w/ 1450 sx	8-5/8" @ 382' Cmtd w/ 200 sx 5-1/2" @ 4045' Cmtd w/ 1600 sx	8-5/8" @ 360' Cmtd w/ 150 sx 5-1/2" @ 4070' Cmtd w/ 1700 sx	8-5/8" @ 385' Cmtd w/ 250 sx 5-1/2" @ 4045' Cmtd w/ 1200 sx	9-5/8" @ 277' Cmtd w/ N/A sx 5-1/2" @ 3509' Cmtd w/ 400 sx
Total Depth	4000'	4045'	4070'	4045'	3850'
Completion	Penrose perfs @ 3916' - 3923', 3927' - 3943', 3965' - 3974'	Penrose perfs @ 3984' - 4003'	Penrose perfs @ 3941' - 3956'	Penrose perfs @ 3985' - 4004'	N/A

	East Eumont Unit Well #37	East Eumont Unit Well #40	East Eumont Unit Well #43	East Eumont Unit Well #46	East Eumont Unit Well #47
Location	660' FNL, 990' FEL Sec. 16, T-19S, R-37E	1980' FNL, 330' FEL Sec. 16, T-19S, R-37E	1980' FSL, 660' FEL Sec. 16, T-19S, R-37E	660' FSL, 1980' FEL Sec. 16, T-19S, R-37E	660' FSL, 660' FEL Sec. 16, T-19S, R-37E
Operator	OXY USA Inc.	OXY USA Inc.	OXY USA Inc.	OXY USA Inc.	OXY USA Inc.
Date Drilled	05/10/57	10/17/56	05/15/56	10/20/54	01/28/57
Well Type	Producer	Producer	Producer	Injector	Producer
Casing	8-5/8" @ 307' Cmtd w/ 225 sx 5-1/2" @ 3943' Cmtd w/ 400 sx	9-5/8" @ 297' Cmtd w/ 225 sx 5-1/2" @ 3746' Cmtd w/ 400 sx	8-5/8" @ 315' Cmtd w/ 200 sx 5-1/2" @ 3972' Cmtd w/ 400 sx	8-5/8" @ 254' Cmtd w/ 300 sx 5-1/2" @ 3650' Cmtd w/ 200 sx	8-5/8" @ 340' Cmtd w/ 275 sx 5-1/2" @ 3976' Cmtd w/ 750 sx
Total Depth	3980'	4028'	4100'	3882'	3976'
Completion	Penrose perfs @ 3892' - 3898', 3924' - 3934'	Open hole from 3746' to 4028'	Penrose perfs @ 3888' - 3940'	Open hole from 3650' to 3882'	Penrose perfs @ 3874' - 3940'

Plugged & Abandoned Well Data

Amerado Hess Corp.

State WH "A" #1

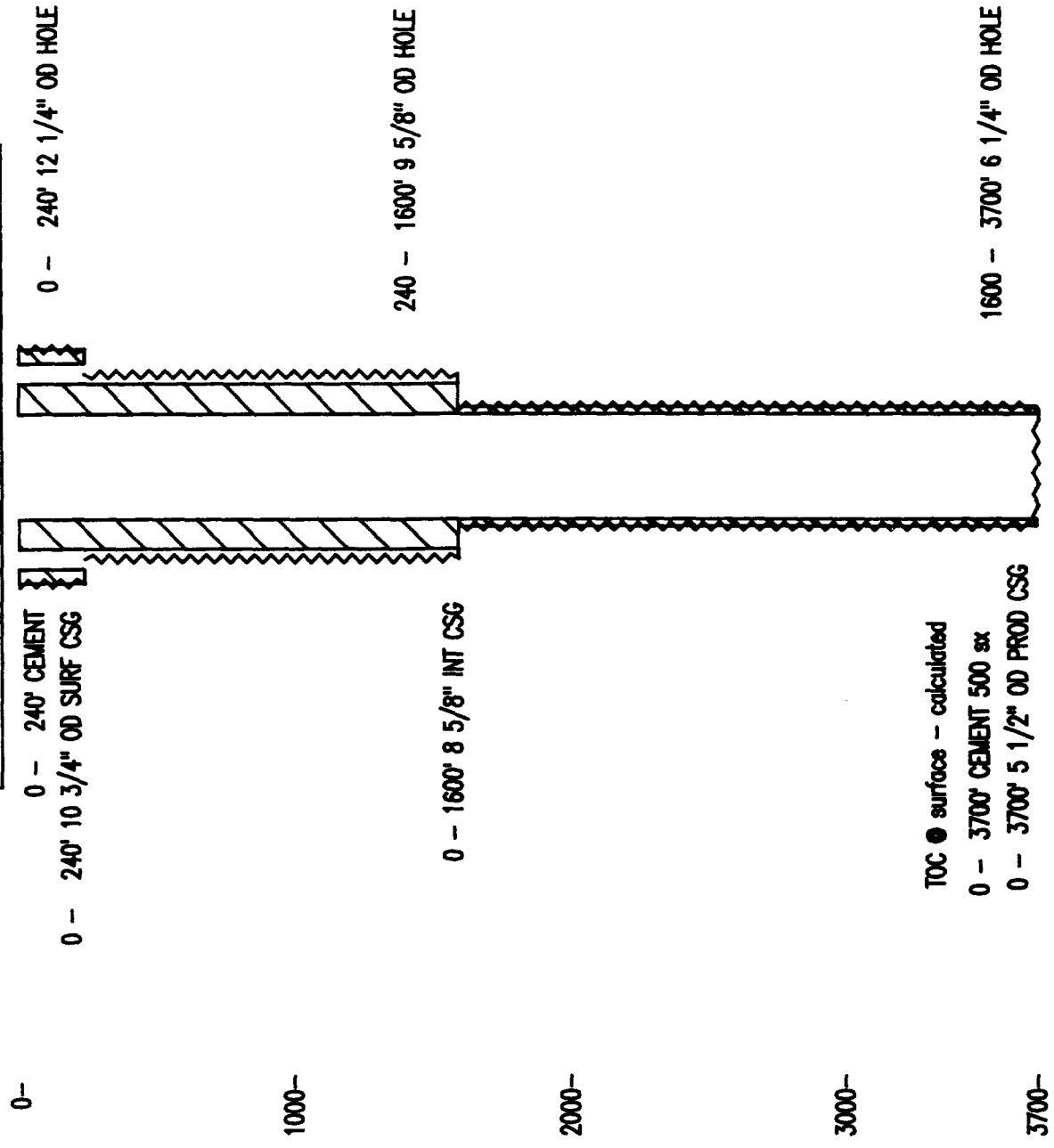


Plugged & Abandoned Well Data

Gordon R. Cone

Ohio State #1

2310' FSL, 330' FWL, Sec. 33, T-18S, R-37E



TOC ● surface - calculated

0 - 3700' CEMENT 500 sx

0 - 3700' 5 1/2" OD PROD CSG

TD: 3700'

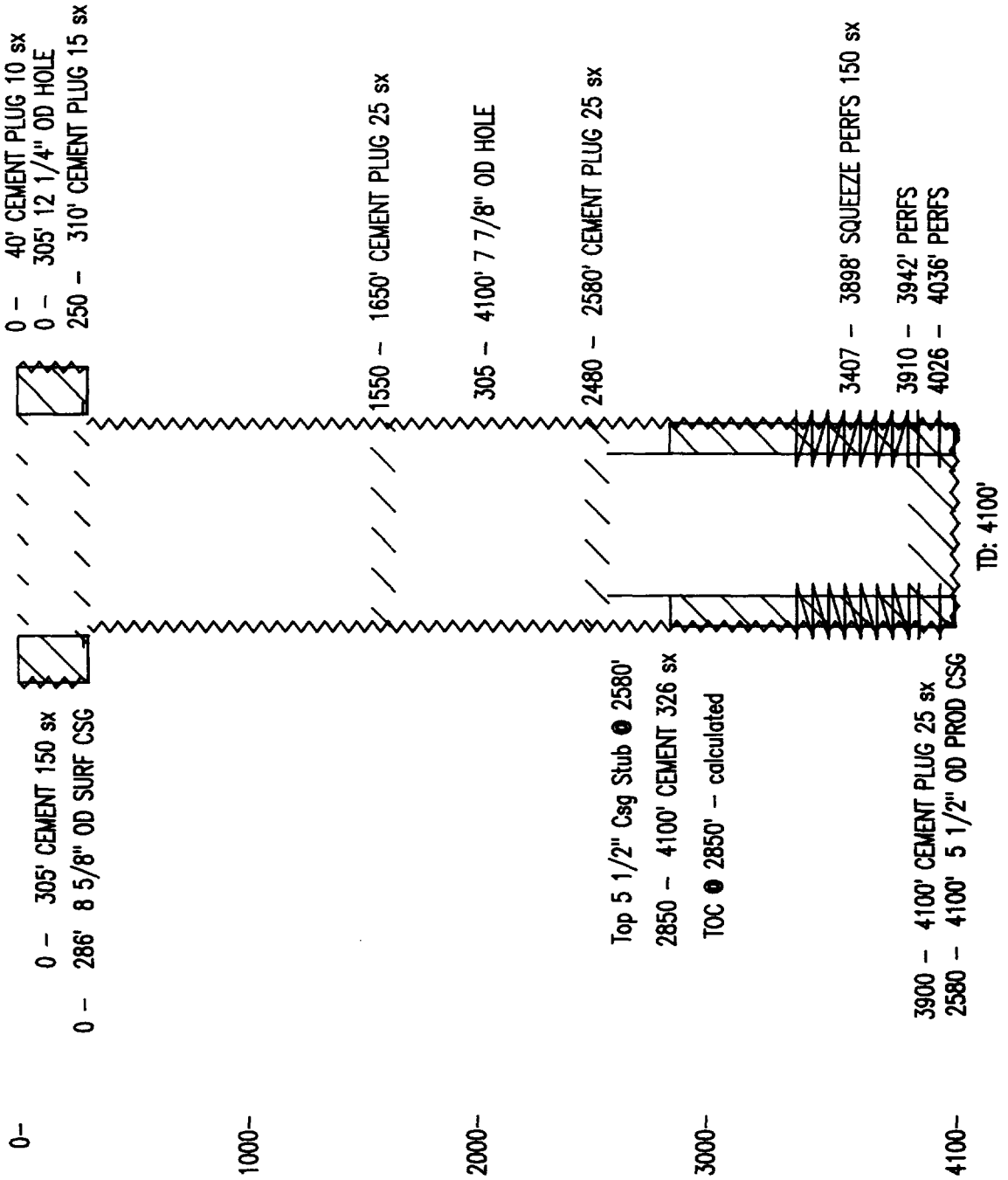
NOTE: This is the only information available in NMOCED well files.

Plugged & Abandoned Well Data

Morris R. Antweil

Lowie State #1

660' FNL, 660' FWL, Sec. 33, T-18S, R-37E

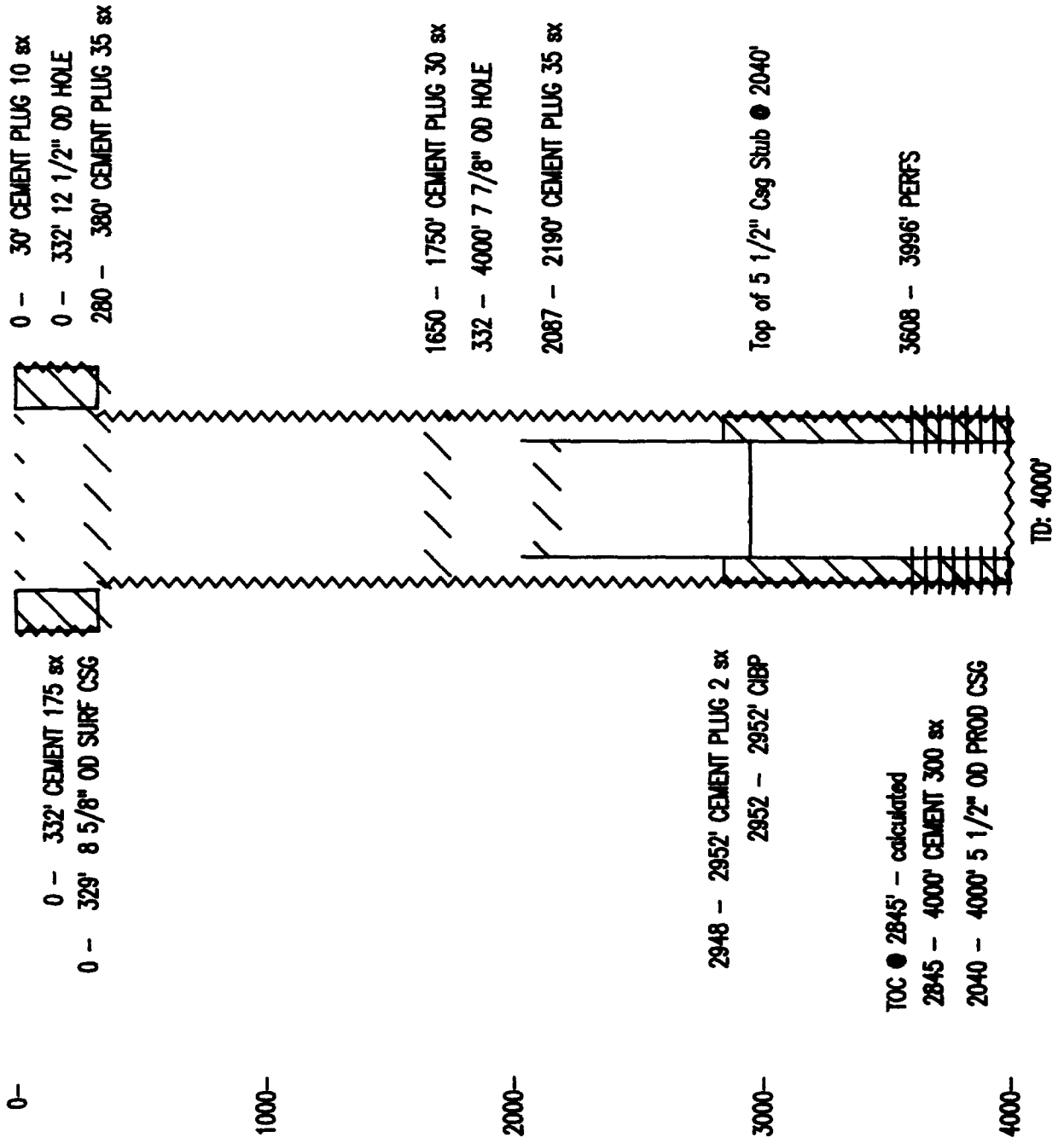


Plugged & Abandoned Well Data

Don H. Wilson

State AT #1

660' FSL, 660' FWL, Sec. 4, T-19S, R-37E



TOC ● 2845' - calculated

2845 - 4000' CEMENT 300 sx

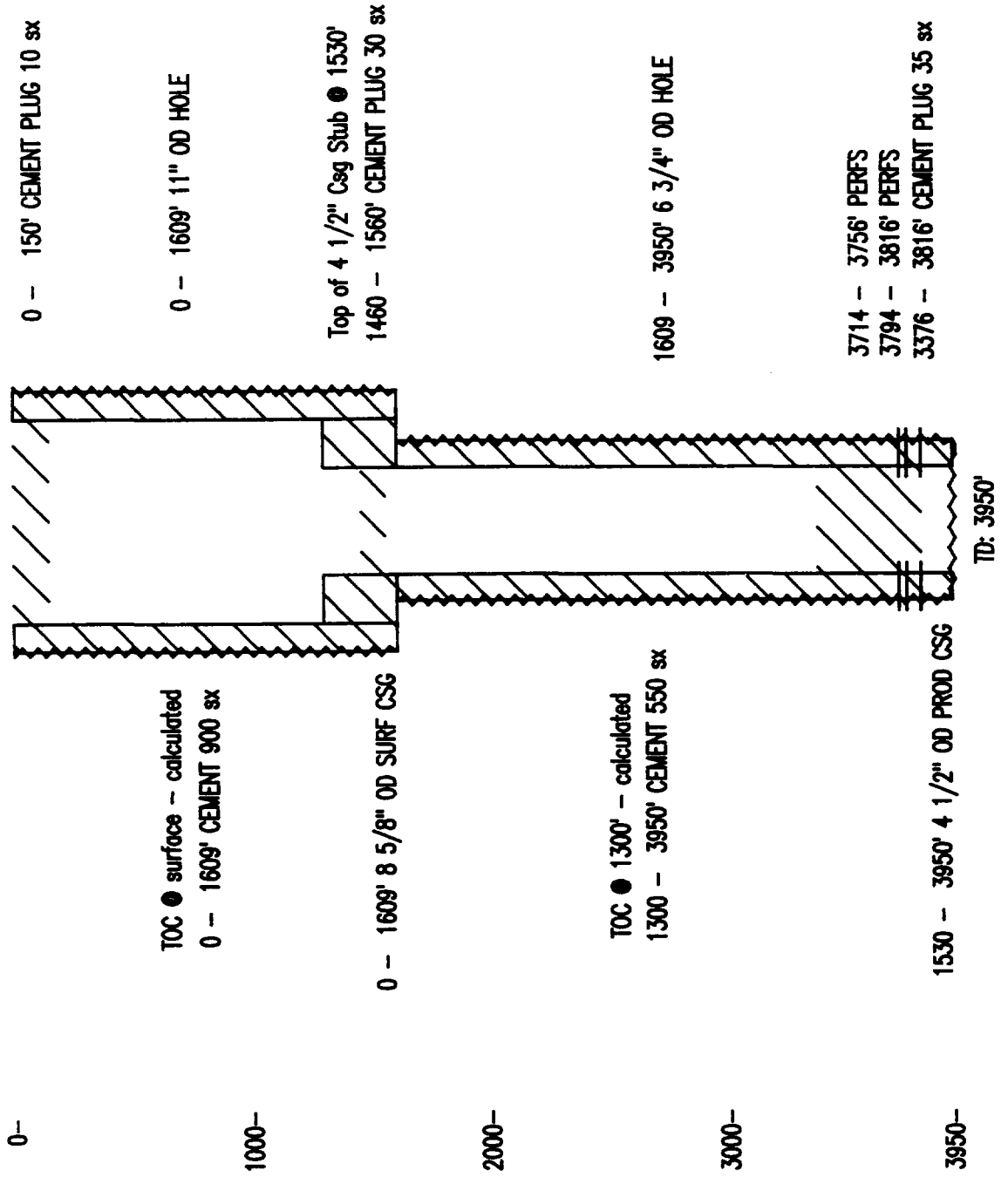
2040 - 4000' 5 1/2" OD PROD CSG

Top of 5 1/2" Csg Stub ● 2040'

Plugged & Abandoned Well Data

Texaco Inc.
Z. A. McMillan "B" #3

660' FSL, 1980' FWL, Sec. 4, T-19S, R-37E

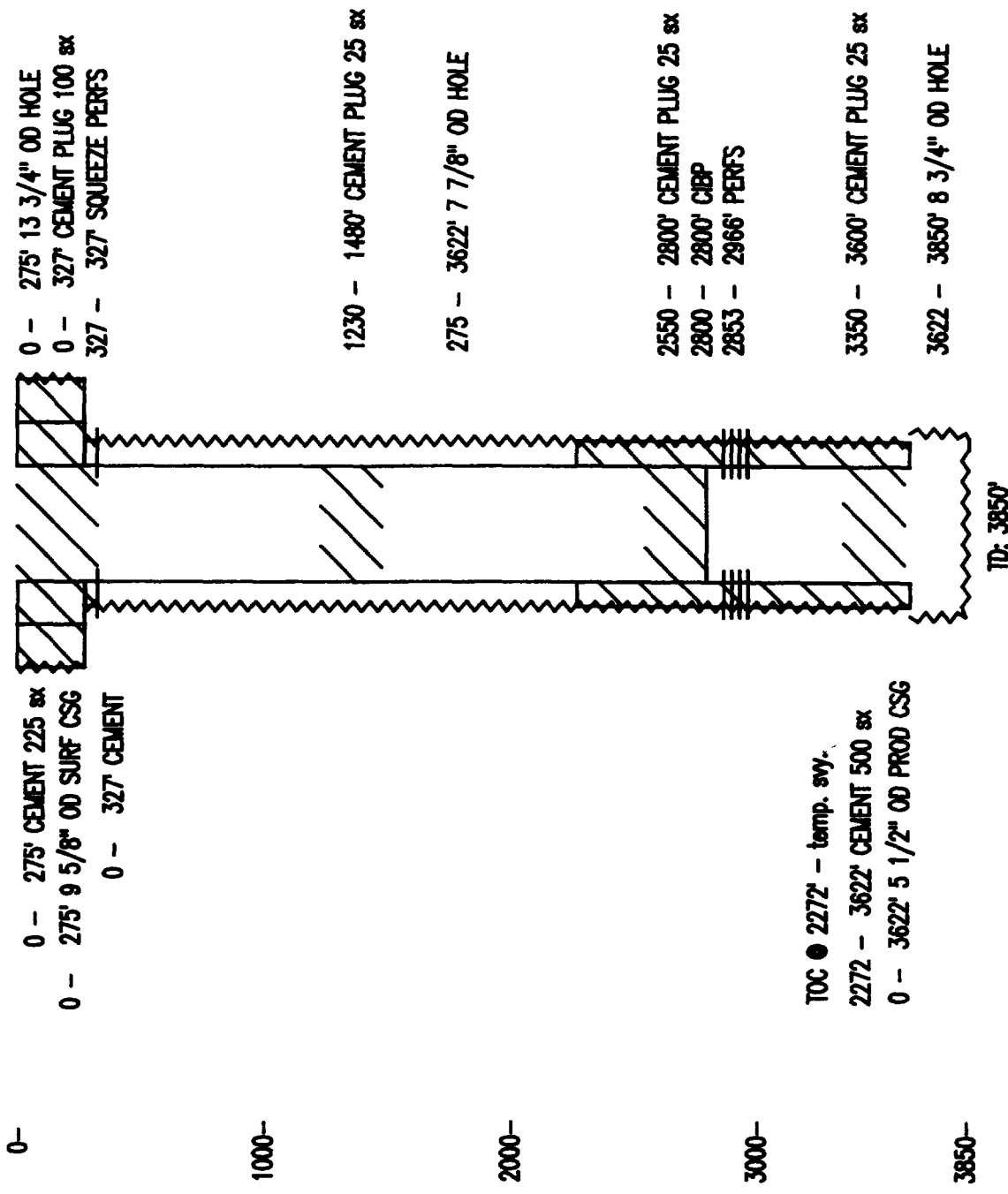


Plugged & Abandoned Well Data

Conoco Inc.

State KI - 16 #1

1980' FSL, 1980' FWL, Sec. 16, T-19S, R-37E



- TOC ● 2272' - temp. svy.
- 2272 - 3622' CEMENT 500 sx
- 0 - 3622' 5 1/2" OD PROD CSG

Responses to C-108

VII

1. Average Daily Injection Rate - 300 BWPD per well
Maximum Daily Injection Rate - 500 BWPD per well
2. The proposed system is a closed system.
3. Average Injection Pressure - 1200 psi
Maximum Injection Pressure - 1800 psi
4. Sources of water:
 - a. Produced water from the East Eumont Unit.
 - b. Fresh Water
5. Injection is not for disposal purposes.

VIII Previously Submitted

IX Each of the proposed injection wells will be acidized with 3000 gallons of acid.

X Previously Submitted

XI Previously Submitted

XII Not Applicable

Legal Notice

OXY USA Inc., P. O. Box 50250, Midland, Texas, 79710, 915/685-5825, Scott Gengler - Engineer, proposes to inject water for secondary recovery purposes into the East Eumont Unit well #'s 2, 4, 6, 7, 9, 11, 12, 14, 16, 18, 20, 22, 25, 28, 30, 32, 35, 36, 37, 39, and 41 located in sections 33 and 34 of T-18S, R-37E and sections 3, 4, 5, 9, 10, 15, and 16 of T-19S, R-37E, Lea County, New Mexico. Water will be injected into the Queen formation at an average depth of 3900' at an approximate rate of 300 BWPD per well and at a maximum pressure of 1800#. Interested parties must file objections or requests for hearing with the New Mexico Oil Conservation Division, P. O. Box 2088, Santa Fe, New Mexico, 87501, within fifteen(15) days of receipt of this notice.